

**GEORGIA
DEPARTMENT OF
TRANSPORTATION**

SURVEY CONTROL PACKAGE

DATE: DECEMBER 30, 2004

PROJECT NUMBER: MSL-0003-00(168)

P.I. NUMBER: 0003168

DESCRIPTION: SR 316 HOV

COUNTY: GWINNETT

SURVEY CONTROL

PROJECT NO: MSL-0003-00(168)

P.I. NO: 0003168

LENGTH: 7.5 MILES

DATE: DECEMBER 30, 2004

COUNTY: GWINNETT

DESCRIPTION: SR 316 (FROM BRECKINRIDGE ROAD TO HI HOPE ROAD)

FILE NAME: HWY316.ASC

ZONE: GEORGIA WEST

HORIZONTAL DATUM: NORTH AMERICAN DATUM (NAD 83/94)

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD 88)

UNIT OF MEASUREMENT: FEET

MEAN SEA LEVEL SCALE FACTOR: 0.99987086

NOTES: CONTACT PBS&J SURVEYING DEPARTMENT 770-933-0280

HORIZONTAL CONTROL

<u>POINT NO.</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEV.</u>	<u>DESC.</u>
101	1448951.765	2357537.649	1038.255	3/4"REBAR SET
102	1448487.228	2355554.159	1041.647	3/4"REBAR SET
103	1448079.547	2353658.603	1049.830	3/4"REBAR SET
104	1447695.849	2352033.544	1096.756	3/4"REBAR SET
105	1447285.090	2350240.638	1069.766	3/4"REBAR SET
106	1446874.867	2348609.077	1067.308	3/4"REBAR SET
107	1446489.570	2346818.288	1041.928	3/4"REBAR SET
108	1445961.689	2345742.953	1020.010	3/4"REBAR SET
109	1444579.505	2344043.032	1034.458	3/4"REBAR SET
110	1443570.734	2342640.769	1018.767	3/4"REBAR SET

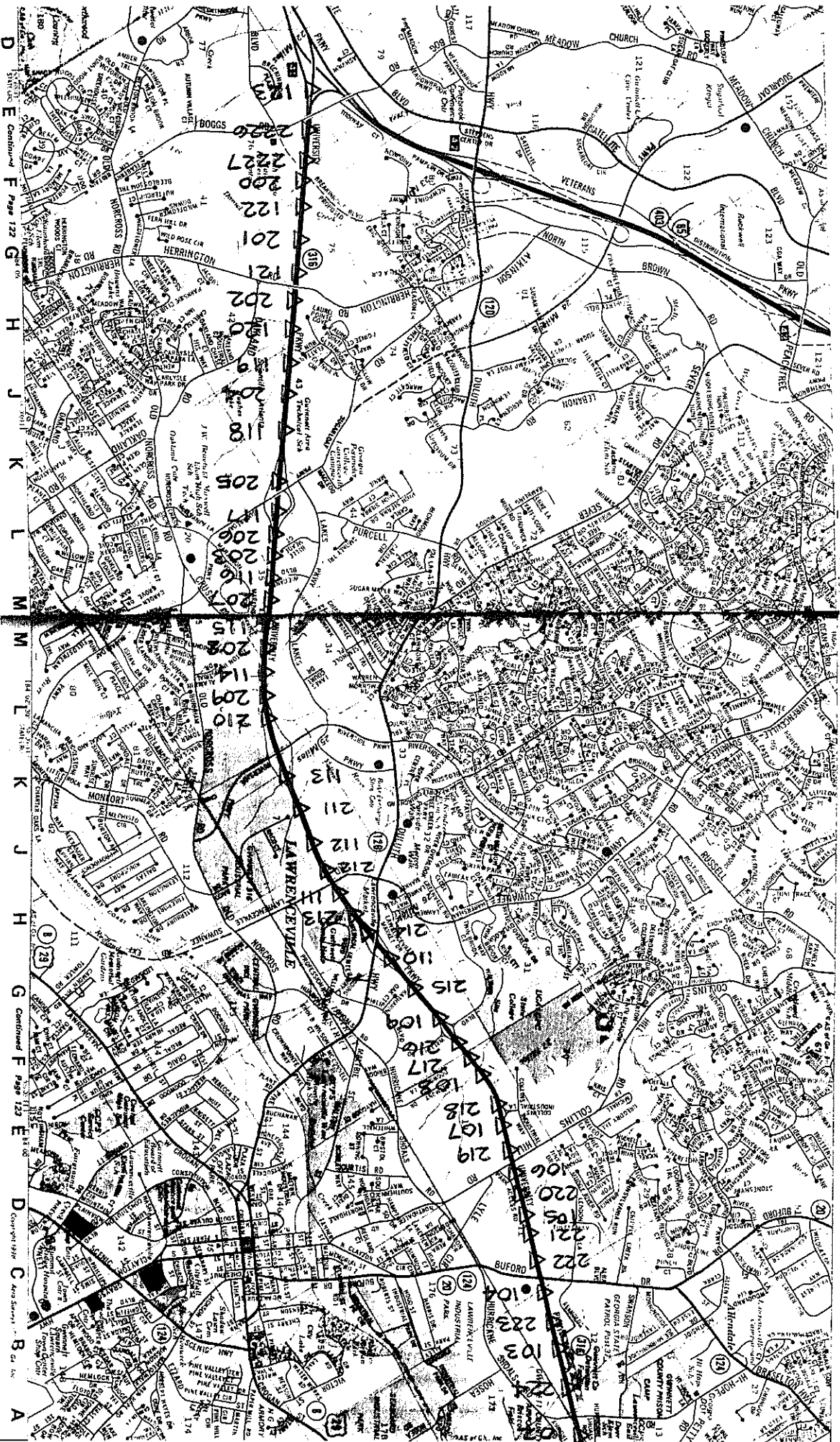
HORIZONTAL CONTROL (CONTINUED)

<u>POINT NO.</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEV.</u>	<u>DESC.</u>
111	1442037.790	2340536.147	1018.654	3/4"REBAR SET
112	1441274.971	2338880.612	970.625	3/4"REBAR SET
113	1440706.334	2337286.914	937.325	3/4"REBAR SET
114	1440068.393	2334137.423	911.289	3/4"REBAR SET
115	1440278.213	2332442.553	935.865	3/4"REBAR SET
116	1440495.235	2330778.450	966.597	3/4"REBAR SET
117	1440708.014	2328987.233	990.291	3/4"REBAR SET
118	1440916.717	2327385.538	980.865	3/4"REBAR SET
119	1441119.408	2325740.342	933.179	3/4"REBAR SET
120	1441315.101	2324033.403	912.837	3/4"REBAR SET
121	1441476.908	2322738.569	922.271	3/4"REBAR SET
122	1441673.043	2321296.132	898.597	3/4"REBAR SET
123	1442063.235	2317997.661	930.826	3/4"REBAR SET
200	1441783.182	2320311.775	893.554	1/2"REBAR SET
201	1441580.506	2321937.441	908.244	1/2"REBAR SET
202	1441396.583	2323419.256	923.200	1/2"REBAR SET
203	1441247.718	2324718.796	908.362	1/2"REBAR SET
204	1441002.361	2326687.300	962.208	1/2"REBAR SET
205	1440812.715	2328198.801	986.934	1/2"REBAR SET
206	1440626.097	2329721.167	989.345	1/2"REBAR SET
207	1440385.357	2331577.925	947.701	1/2"REBAR SET
208	1440196.031	2333123.560	926.544	1/2"REBAR SET
209	1440071.344	2334727.395	904.959	1/2"REBAR SET
210	1440340.923	2336259.514	923.883	1/2"REBAR SET
211	1440993.557	2338091.193	948.466	1/2"REBAR SET
212	1441664.474	2339924.897	1008.707	1/2"REBAR SET
213	1442459.724	2341123.993	1013.517	1/2"REBAR SET
214	1443026.613	2341896.514	1010.503	1/2"REBAR SET
215	1444079.509	2343334.568	1026.312	1/2"REBAR SET
216	1445201.098	2344842.163	1037.378	1/2"REBAR SET
217	1445614.357	2345355.778	1026.906	3/4"REBAR SET
218	1446304.987	2346282.620	1029.447	1/2"REBAR SET
219	1446710.111	2347735.238	1063.620	1/2"REBAR SET
220	1447094.618	2349410.516	1051.453	1/2"REBAR SET
221	1447456.235	2350971.883	1092.922	1/2"REBAR SET
222	1447571.590	2351405.571	1100.949	1/2"REBAR SET
223	1447908.217	2352878.292	1074.137	1/2"REBAR SET
224	1448290.845	2354503.271	1037.665	1/2"REBAR SET
225	1448850.888	2357057.946	1033.03	1/2"REBAR SET
2226	1441984.818	2318666.817	920.325	CONC. MNMNT
2227	1441860.301	2319685.364	901.333	CONC. MNMNT

VERTICAL CONTROL

<u>POINT NO.</u>	<u>ELEVATION</u>	<u>DESCRIPTION</u>
1	918.82	CHISELED SQUARE
2	933.06	SCRIBE SQUARE
3	923.98	CHISELED SQUARE
4	929.87	CHISELED SQUARE
5	892.96	CHISELED SQUARE
6	881.45	CHISELED SQUARE
7	860.88	CHISELED SQUARE
8	822.58	CHISELED SQUARE
9	822.69	CHISELED SQUARE
11	804.82	CHISELED SQUARE

PROJECT NO: MSL-0003-00(168) P.I. NO: 0003168 LENGTH: 7.5 MILES SR 316 HOV



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 6.98

1 National Geodetic Survey, Retrieval Date = APRIL 2, 2004

DF3538 *****

DF3538 CBN - This is a Cooperative Base Network Control Station.

DF3538 DESIGNATION - G 032

DF3538 PID - DF3538

DF3538 STATE/COUNTY- GA/GWINNETT

DF3538 USGS QUAD - LAWRENCEVILLE (1998)

DF3538

DF3538 *CURRENT SURVEY CONTROL

DF3538

DF3538* NAD 83(1994)- 33 59 03.59470(N) 083 55 40.23946(W) ADJUSTED

DF3538* NAVD 88 - 329.5 (meters) 1081. (feet) GPS OBS

DF3538

DF3538 X - 560,054.387 (meters) COMP

DF3538 Y - -5,264,773.910 (meters) COMP

DF3538 Z - 3,545,173.304 (meters) COMP

DF3538 LAPLACE CORR- 0.61 (seconds) DEFLEC99

DF3538 ELLIP HEIGHT- 300.01 (meters) (03/09/95) GPS OBS

DF3538 GEOID HEIGHT- -29.48 (meters) GEOID03

DF3538

DF3538 HORZ ORDER - B

DF3538 ELLP ORDER - FIRST CLASS I

DF3538

DF3538.The horizontal coordinates were established by GPS observations

DF3538.and adjusted by the National Geodetic Survey in March 1995.

DF3538

DF3538.The orthometric height was determined by GPS observations and a

DF3538.high-resolution geoid model.

DF3538

DF3538.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DF3538

DF3538.The Laplace correction was computed from DEFLEC99 derived deflections.

DF3538

DF3538.The ellipsoidal height was determined by GPS observations

DF3538.and is referenced to NAD 83.

DF3538

DF3538.The geoid height was determined by GEOID03.

DF3538

DF3538; North East Units Scale Factor Converg.

DF3538;SPC GA W - 441,791.623 722,065.421 MT 0.99990600 +0 08 00.6

DF3538;UTM 17 - 3,764,283.584 229,525.793 MT 1.00050192 -1 38 15.2

DF3538;UTM 16 - 3,764,674.261 783,810.407 MT 1.00059307 +1 43 06.2

DF3538

DF3538! Elev Factor x Scale Factor = Combined Factor

DF3538!SPC GA W - 0.99995291 x 0.99990600 = 0.99985891

DF3538!UTM 17 - 0.99995291 x 1.00050192 = 1.00045480

DF3538!UTM 16 - 0.99995291 x 1.00059307 = 1.00054595

DF3538

DF3538 SUPERSEDED SURVEY CONTROL

DF3538

DF3538 NAD 83(1986)- 33 59 03.60034(N) 083 55 40.23781(W) AD() 1

DF3538 NGVD 29 (08/10/93) 329.4 (m) 1081. (f) GPS OBS

DF3538

DF3538.Superseded values are not recommended for survey control.

DF3538.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF3538.See file dsdata.txt to determine how the superseded data were derived.

DF3538

DF3538_U.S. NATIONAL GRID SPATIAL ADDRESS: 17SKT2952664284 (NAD 83)

DF3538_MARKER: DD = SURVEY DISK

DF3538_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

DF3538_STAMPING: G032

DF3538_MARK LOGO: GA-135

DF3538_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

DF3538_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

DF3538+STABILITY: SURFACE MOTION

DF3538_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DF3538+SATELLITE: SATELLITE OBSERVATIONS - February 16, 1996

DF3538

DF3538	HISTORY	- Date	Condition	Report By
DF3538	HISTORY	- 1989	MONUMENTED	HOBBS
DF3538	HISTORY	- 19940306	GOOD	GA-135
DF3538	HISTORY	- 19960216	GOOD	HOFFMA

DF3538

DF3538 STATION DESCRIPTION

DF3538

DF3538'DESCRIBED BY HOBBS AND ASSOCIATES 1989

DF3538'STATION IS LOCATED IN GWINNETT COUNTY, 3.05 KM (1.90 MI) WEST OF

DF3538'DACULA AND 6.1 KM (3.8 MI) NORTHEAST OF LAWRENCEVILLE.

DF3538'TO REACH THE STATION FROM THE INTERSECTION OF U.S. 29 AND S.R. 316,

DF3538'PROCEED WEST ON S.R. 316 FOR 0.08 KM (0.05 MI) ACROSS THE BRIDGE OVER

DF3538'THE RAILROAD TRACKS TO THE STATION LOCATED IN THE MEDIAN OF S.R. 316.

DF3538'STATION IS 14.23 M (46.69 FT) N14E OF THE CENTERLINE OF THE EAST BOUND

DF3538'LANE OF S.R. 316, 12.71 M (41.70 FT) S37W OF THE CENTERLINE OF THE

DF3538'WEST BOUND LANE OF S.R. 316, AND 9.51 M (31.20 FT) S24E OF THE

DF3538'WINDER-ATHENS ROAD MARKER.

DF3538'TO REACH THE AZIMUTH MARK FROM THE GPS STATION, PROCEED WEST ON S.R.

DF3538'316 FOR 0.48 KM (0.30 MI) TO THE MARK LOCATED ON THE NORTH

DF3538'RIGHT-OF-WAY OF THE ROAD. MARK IS 6.21 M (20.37 FT) N20E OF THE EDGE

DF3538'OF THE PAVEMENT, AND 36.6 M (120.1 FT) S20W OF A FENCE. THE MARK IS

DF3538'DIRECTLY ACROSS THE ROAD FROM A LEFT (EAST) TURN SIGN FOR FENCE ROAD.

DF3538'THE AZIMUTH MARK IS STAMPED G232.

DF3538

DF3538 STATION RECOVERY (1994)

DF3538

DF3538'RECOVERY NOTE BY GWINNETT COUNTY GEORGIA 1994 (CFS)

DF3538'STATION IS LOCATED 3.05 KM (1.90 MI) WEST OF DACULA AND 6.1 KM (3.80

DF3538'MI) NORTHEAST OF LAWRENCEVILLE. OWNERSHIP--HIGHWAY RIGHT-OF-WAY. TO

DF3538'REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 29 AND STATE

DF3538'HIGHWAY 316, WHICH IS LOCATED 2 MI (3.2 KM) SOUTHWEST OF DACULA, GO

DF3538'WEST ON HIGHWAY 316 FOR 0.08 KM (0.05 MI) ACROSS THE BRIDGE OVER THE

DF3538'RAILROAD TRACKS TO THE STATION LOCATED IN THE MEDIAN OF HIGHWAY 316.

DF3538'THE STATION IS LOCATED 14.23 M (46.69 FT) NORTHEAST OF THE CENTERLINE

DF3538'OF THE EASTBOUND LANE OF THE HIGHWAY, 12.71 M (41.70 FT) SOUTHWEST OF

DF3538'THE CENTERLINE OF THE WESTBOUND LANE OF THE HIGHWAY AND 9.51 M (31.20

DF3538'FT) SOUTHEAST OF THE WINDER-ATHENS ROAD MARKER.

DF3538

DF3538 STATION RECOVERY (1996)

DF3538

DF3538'RECOVERY NOTE BY HOFFMAN AND COMPANY 1996 (MWB)

DF3538'RECOVERED AS DESCRIBED.

1 National Geodetic Survey, Retrieval Date = APRIL 2, 2004

EE2345 *****

EE2345 DESIGNATION - G015
 EE2345 PID - EE2345
 EE2345 STATE/COUNTY- GA/GWINNETT
 EE2345 USGS QUAD - SUWANEE (1992)

EE2345
 EE2345 *CURRENT SURVEY CONTROL

EE2345*	NAD 83(1994)-	34 05 45.85280(N)	084 00 45.49729(W)	ADJUSTED
EE2345*	NAVD 88	- 329.8 (meters)	1082. (feet)	VERTCON

EE2345	X	- 551,538.556 (meters)	COMP
EE2345	Y	- 5,258,696.657 (meters)	COMP
EE2345	Z	- 3,555,444.452 (meters)	COMP
EE2345	LAPLACE CORR-	0.28 (seconds)	DEFLEC99
EE2345	ELLIP HEIGHT-	300.25 (meters)	(09/03/97) GPS OBS
EE2345	GEOID HEIGHT-	-29.57 (meters)	GEOID03

EE2345
 EE2345 HORZ ORDER - FIRST
 EE2345 ELLP ORDER - FOURTH CLASS II
 EE2345

EE2345.The horizontal coordinates were established by GPS observations
 EE2345.and adjusted by the National Geodetic Survey in September 1997.
 EE2345

EE2345.The NAVD 88 height was computed by applying the VERTCON shift value to
 EE2345.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 EE2345

EE2345.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 EE2345

EE2345.The Laplace correction was computed from DEFLEC99 derived deflections.
 EE2345

EE2345.The ellipsoidal height was determined by GPS observations
 EE2345.and is referenced to NAD 83.
 EE2345

EE2345.The geoid height was determined by GEOID03.
 EE2345

EE2345;		North	East	Units	Scale Factor	Converg.
EE2345;SPC GA W	-	454,169.755	714,212.438	MT	0.99990249	+0 05 10.8
EE2345;UTM 16	-	3,776,838.169	775,612.186	MT	1.00053650	+1 40 32.6
EE2345;UTM 17	-	3,776,906.704	222,055.039	MT	1.00055242	-1 41 23.7

EE2345!		Elev Factor	x	Scale Factor	=	Combined Factor
EE2345!SPC GA W	-	0.99995287	x	0.99990249	=	0.99985536
EE2345!UTM 16	-	0.99995287	x	1.00053650	=	1.00048934
EE2345!UTM 17	-	0.99995287	x	1.00055242	=	1.00050526

EE2345
 EE2345
 EE2345 SUPERSEDED SURVEY CONTROL

EE2345	NAD 83(1994)-	34 05 45.85930(N)	084 00 45.49645(W)	AD() 1
EE2345	NGVD 29 (08/10/93)	329.7 (m)	1082. (f)	GPS OBS

EE2345
 EE2345.Superseded values are not recommended for survey control.
 EE2345.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 EE2345.See file dsdata.txt to determine how the superseded data were derived.
 EE2345

EE2345_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SGC7561276838(NAD 83)
 EE2345_MARKER: A = ALUMINUM MARKER
 EE2345_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 EE2345_STAMPING: G015
 EE2345_MARK LOGO: GWINNE
 EE2345_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

EE2345_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
 EE2345+STABILITY: POSITION/ELEVATION WELL
 EE2345_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 EE2345+SATELLITE: SATELLITE OBSERVATIONS - 1989

EE2345

EE2345 HISTORY - Date Condition Report By
 EE2345 HISTORY - 1989 MONUMENTED HOBBS

EE2345

EE2345 STATION DESCRIPTION

EE2345

EE2345'DESCRIBED BY HOBBS AND ASSOCIATES 1989
 EE2345'STATION IS LOCATED IN GWINNETT COUNTY, GEORGIA, ABOUT 10 MI (16.1 KM)
 EE2345'NORTH OF DOWNTOWN LAWRENCEVILLE, 1.83 KM (1.14 MI) NORTH OF DOWNTOWN
 EE2345'BUFORD AND 1.83 KM (1.14 MI) NORTHWEST OF SUGAR HILL.
 EE2345'TO REACH THE STATION FROM THE INTERSECTION OF U.S. 23/S.R. 20 AND S.
 EE2345'R. 13, PROCEED TO THE SOUTHEAST CORNER OF THE INTERSECTION IN FRONT
 EE2345'OF THE PIZZA HUT.
 EE2345'STATION IS 2.04 M (6.69 FT) N63E OF THE BACK OF THE CURB, 7.3 M
 EE2345'(24.0 FT) S30W OF A UTILITY POLE, AND 3.1 M (10.2 FT) DUE NORTH OF A
 EE2345'TRAFFIC LIGHT JUNCTION BOX.
 EE2345'TO REACH THE AZIMUTH MARK FROM THE GPS STATION, PROCEED NORTH ON S.R.
 EE2345'13 FOR 1.04 KM (0.65 MI) TO THE MARK LOCATED IN THE MEDIAN OF THE
 EE2345'ROAD, DIRECTLY ACROSS FROM THE DOVER AND CHEEK ELECTRICAL AND
 EE2345'PLUMBING INC. MARK IS 2.3 M (7.5 FT) N51W OF THE BACK OF THE CURBING
 EE2345'OF THE SOUTH BOUND LANE OF S.R. 13, 2.3 M (7.5 FT) S51E OF THE BACK
 EE2345'OF THE CURBING OF THE NORTH BOUND LANE OF S.R. 13, AND 31.7 M
 EE2345'(104.0 FT) N11W OF A FIRE HYDRANT LOCATED ON THE SOUTHWEST
 EE2345'RIGHT-OF-WAY OF THE ENTRANCE TO DOVER AND CHEEK ELECTRICAL AND
 EE2345'PLUMBING. THE AZIMUTH MARK IS STAMPED G215.

1 National Geodetic Survey, Retrieval Date = APRIL 2, 2004

DG3741 *****

DG3741 DESIGNATION - G039
 DG3741 PID - DG3741
 DG3741 STATE/COUNTY- GA/GWINNETT
 DG3741 USGS QUAD - LUXOMNI (1992)

DG3741

DG3741 *CURRENT SURVEY CONTROL

DG3741

DG3741*	NAD 83(1994)-	33 57 32.25513(N)	084 02 18.38470(W)	ADJUSTED
DG3741*	NAVD 88	- 278.2 (meters)	913. (feet)	VERTCON

DG3741

DG3741	X	- 550,049.883 (meters)	COMP
DG3741	Y	- 5,267,367.086 (meters)	COMP
DG3741	Z	- 3,542,810.643 (meters)	COMP
DG3741	LAPLACE CORR-	0.79 (seconds)	DEFLEC99
DG3741	ELLIP HEIGHT-	248.82 (meters)	(09/03/97) GPS OBS
DG3741	GEOID HEIGHT-	-29.50 (meters)	GEOID03

DG3741

DG3741 HORZ ORDER - FIRST

DG3741 ELLP ORDER - FOURTH CLASS II

DG3741

DG3741.The horizontal coordinates were established by GPS observations

DG3741.and adjusted by the National Geodetic Survey in September 1997.

DG3741

DG3741.The NAVD 88 height was computed by applying the VERTCON shift value to
 DG3741.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

DG3741

DG3741.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DG3741

DG3741.The Laplace correction was computed from DEFLEC99 derived deflections.

DG3741

DG3741.The ellipsoidal height was determined by GPS observations

DG3741.and is referenced to NAD 83.

DG3741

DG3741.The geoid height was determined by GEOID03.

DG3741

DG3741;		North	East	Units	Scale	Factor	Converg.
DG3741;SPC GA W	-	438,959.286	711,850.688	MT	0.99990173	+0 04 17.9	
DG3741;UTM 16	-	3,761,558.553	773,671.255	MT	1.00052338	+1 39 19.3	
DG3741;UTM 17	-	3,761,766.607	219,221.907	MT	1.00057197	-1 41 54.2	

DG3741

DG3741!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DG3741!SPC GA W	-	0.99996094	x	0.99990173	=	0.99986267
DG3741!UTM 16	-	0.99996094	x	1.00052338	=	1.00048430
DG3741!UTM 17	-	0.99996094	x	1.00057197	=	1.00053289

DG3741

DG3741

SUPERSEDED SURVEY CONTROL

DG3741

DG3741 NAD 83(1994)- 33 57 32.26177(N) 084 02 18.38330(W) AD() 1

DG3741 NGVD 29 (08/10/93) 278.2 (m) 913. (f) GPS OBS

DG3741

DG3741.Superseded values are not recommended for survey control.

DG3741.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DG3741.See file dsdata.txt to determine how the superseded data were derived.

DG3741

DG3741_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SGC7367161559(NAD 83)

DG3741_MARKER: A = ALUMINUM MARKER

DG3741_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

DG3741_STAMPING: G039

DG3741_MARK LOGO: GWINNE

DG3741_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

DG3741_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

DG3741+STABILITY: POSITION/ELEVATION WELL

DG3741_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DG3741+SATELLITE: SATELLITE OBSERVATIONS - 1989

DG3741

DG3741 HISTORY - Date Condition Report By

DG3741 HISTORY - 1989 MONUMENTED HOBBS

DG3741

STATION DESCRIPTION

DG3741

DG3741'DESCRIBED BY HOBBS AND ASSOCIATES 1989

DG3741'STATION IS LOCATED IN GWINNETT COUNTY, GA, 4.9 KM (3.0 MI) WEST OF

DG3741'LAWRENCEVILLE AND 10.4 KM (6.5 MI) SOUTHWEST OF DULUTH.

DG3741'TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE-85 NORTH AND

DG3741'STATE ROAD 316, GO EAST ON SR 316 FOR 3.75 MI (6.03 KM) TO THE

DG3741'STATION LOCATED IN MEDIAN OF SR 316 WEST OF THE YELLOW RIVER BRIDGE.

DG3741'STATION IS 6.92 M (22.70 FT) S30E OF THE CENTERLINE OF THE WEST BOUND

DG3741'LANE OF SR 316, 11.5 FT (3.5 M) S30W OF THE SOUTHWEST END THE BRIDGE

DG3741'FOR THE WEST BOUND LANE, AND 8.1 M (26.6 FT) N70W OF THE NORTHWEST

DG3741'END OF THE BRIDGE FOR THE EAST BOUND LANE.

DG3741'TO REACH THE AZIMUTH MARK FROM THE GPS STATION, PROCEED EAST ON SR 316

DG3741'FOR 0.55 MI (0.89 KM) TO THE MARK LOCATED ON THE SOUTH RIGHT-OF-WAY

DG3741'OF THE ROAD, 12.8 FT (3.9 M) S20E OF THE EDGE OF THE PAVEMENT, 6.7 M

DG3741'(22.0 FT) N25W OF AN EIGHT-INCH PINE TREE, AND 15.08 M (49.47 FT)

DG3741'N86W OF TWIN ELEVEN-INCH PINE TREES. THE AZIMUTH MARK IS STAMPED G239.

1 National Geodetic Survey, Retrieval Date = APRIL 2, 2004

DG3744 *****

DG3744 DESIGNATION - G042

DG3744 PID - DG3744

DG3744 STATE/COUNTY- GA/GWINNETT
 DG3744 USGS QUAD - NORCROSS (1992)
 DG3744
 DG3744 *CURRENT SURVEY CONTROL
 DG3744
 DG3744* NAD 83(1994)- 33 56 41.35510(N) 084 09 43.31183(W) ADJUSTED
 DG3744* NAVD 88 - 287.9 (meters) 945. (feet) VERTCON
 DG3744
 DG3744 X - 538,776.459 (meters) COMP
 DG3744 Y - -5,269,420.708 (meters) COMP
 DG3744 Z - 3,541,515.081 (meters) COMP
 DG3744 LAPLACE CORR- 0.66 (seconds) DEFLEC99
 DG3744 ELLIP HEIGHT- 258.51 (meters) (09/03/97) GPS OBS
 DG3744 GEOID HEIGHT- -29.55 (meters) GEOID03
 DG3744
 DG3744 HORZ ORDER - FIRST
 DG3744 ELLP ORDER - FOURTH CLASS II
 DG3744
 DG3744.The horizontal coordinates were established by GPS observations
 DG3744.and adjusted by the National Geodetic Survey in September 1997.
 DG3744
 DG3744.The NAVD 88 height was computed by applying the VERTCON shift value to
 DG3744.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 DG3744
 DG3744.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 DG3744
 DG3744.The Laplace correction was computed from DEFLEC99 derived deflections.
 DG3744
 DG3744.The ellipsoidal height was determined by GPS observations
 DG3744.and is referenced to NAD 83.
 DG3744
 DG3744.The geoid height was determined by GEOID03.
 DG3744
 DG3744;

	North	East	Units	Scale Factor	Converg.
DG3744;SPC GA W	- 437,383.737	700,428.493	MT	0.99990000	+0 00 09.3
DG3744;UTM 16	- 3,759,666.887	762,290.303	MT	1.00044817	+1 35 08.2

 DG3744
 DG3744!

	Elev Factor	x	Scale Factor	=	Combined Factor
DG3744!SPC GA W	- 0.99995942	x	0.99990000	=	0.99985942
DG3744!UTM 16	- 0.99995942	x	1.00044817	=	1.00040757

 DG3744
 DG3744
 DG3744 SUPERSEDED SURVEY CONTROL
 DG3744
 DG3744 NAD 83(1994)- 33 56 41.36243(N) 084 09 43.30996(W) AD() 1
 DG3744 NGVD 29 (08/10/93) 287.9 (m) 945. (f) GPS OBS
 DG3744
 DG3744.Superseded values are not recommended for survey control.
 DG3744.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 DG3744.See file dsdata.txt to determine how the superseded data were derived.
 DG3744
 DG3744_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SGC6229059667(NAD 83)
 DG3744_MARKER: A = ALUMINUM MARKER
 DG3744_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DG3744_STAMPING: G042
 DG3744_MARK LOGO: GWINNE
 DG3744_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
 DG3744_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
 DG3744+STABILITY: POSITION/ELEVATION WELL
 DG3744_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DG3744+SATELLITE: SATELLITE OBSERVATIONS - 1989

DG3744

DG3744	HISTORY	- Date	Condition	Report By
DG3744	HISTORY	- 1989	MONUMENTED	HOBBS

DG3744

DG3744

STATION DESCRIPTION

DG3744

DG3744'DESCRIBED BY HOBBS AND ASSOCIATES 1989

DG3744'STATION IS LOCATED IN GWINNETT COUNTY, GA, 4.83 KM (3.00 MI) EAST

DG3744'OF NORCROSS AND 6.4 KM (4.0 MI) NORTHWEST OF LILBURN, ABOUT 10 MI

DG3744'(16.1 KM) WEST OF LAWRENCEVILLE.

DG3744'TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE-85 AND S.R.

DG3744'378 (BEAVER RUIN ROAD), PROCEED EAST ON STATE ROAD 378 FOR 0.5 MI

DG3744'(0.8 KM) TO THE INTERSECTION OF SATELLITE BLVD. TURN AND GO NORTHEAST

DG3744'ON SATELLITE BLVD FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF OLD

DG3744'HOPKINS MILL ROAD, GO NORTH ON OLD HOPKINS MILL ROAD FOR 0.25 MI

DG3744'(0.40 KM) TO THE STATION LOCATED ON THE EAST RIGHT-OF-WAY OF THE

DG3744'ROAD, 0.91 M (2.99 FT) FROM THE EDGE OF THE PAVEMENT.

DG3744'STATION IS 4.0 M (13.1 FT) S16E OF THE CENTERLINE OF OLD HOPKINS MILL

DG3744'ROAD, 4.5 M (14.8 FT) N16W OF A FENCE LINE, AND 23.8 M (78.1 FT) S06W

DG3744'OF A SIGN.

*** retrieval complete.

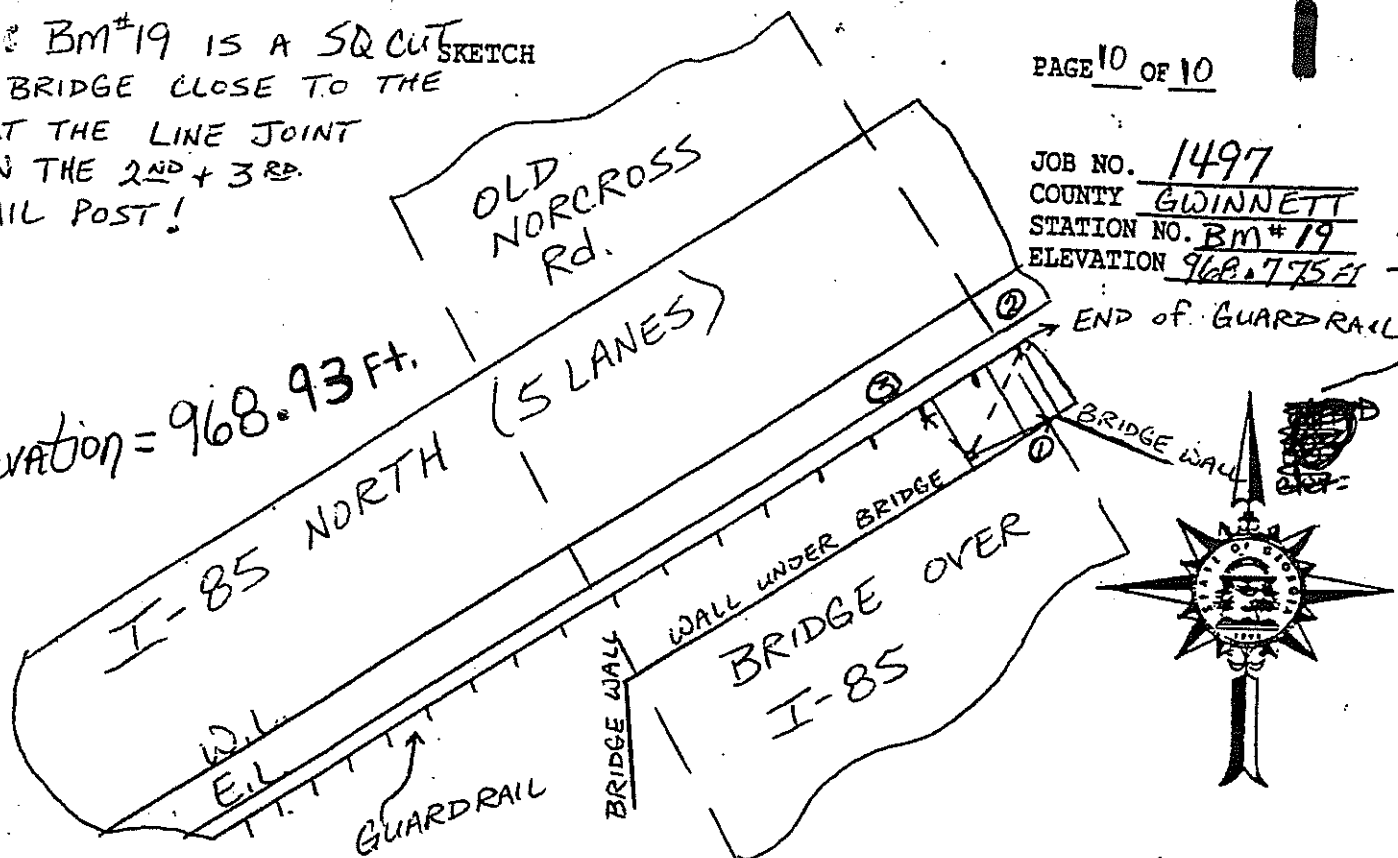
Elapsed Time = 00:00:02

NOTE: BM#19 IS A SQ CUT SKETCH
UNDER BRIDGE CLOSE TO THE
WALL AT THE LINE JOINT
BETWEEN THE 2ND + 3RD
RAILROAD POST!

PAGE 10 OF 10

JOB NO. 1497
COUNTY GWINNETT
STATION NO. BM#19
ELEVATION 968.775 FT
END OF GUARDRAIL

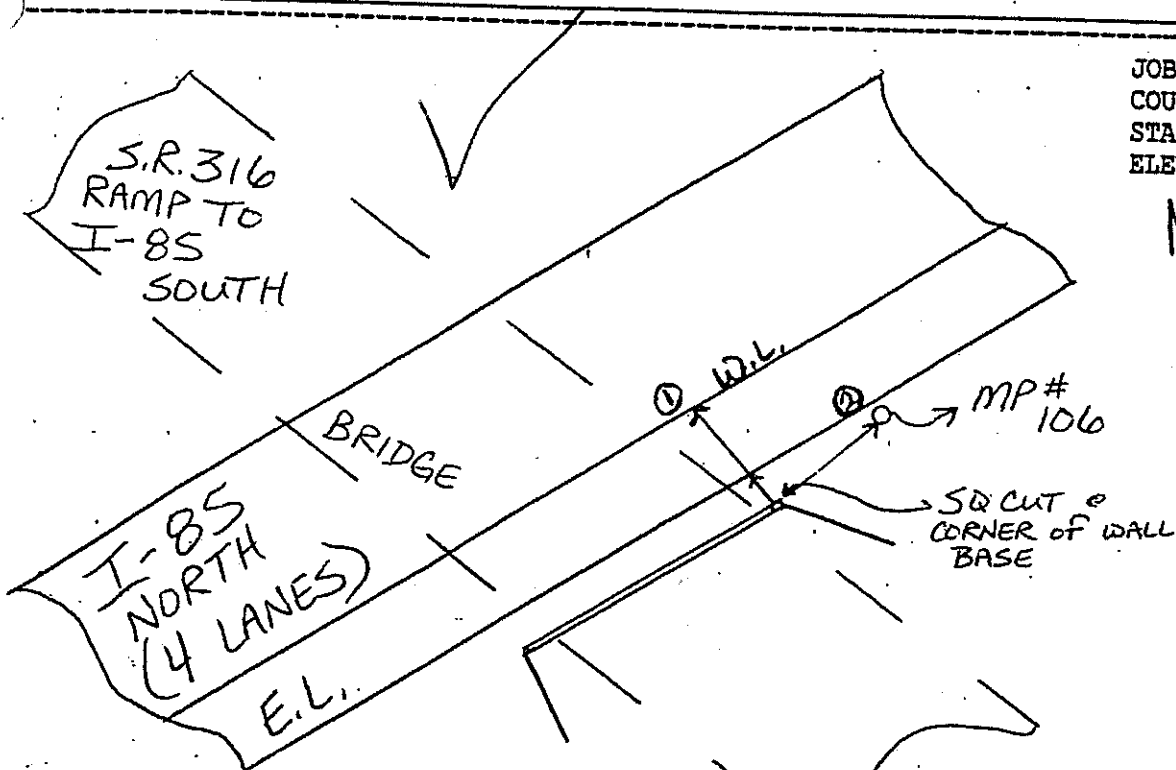
NAVD
88 elevation = 968.93 ft.



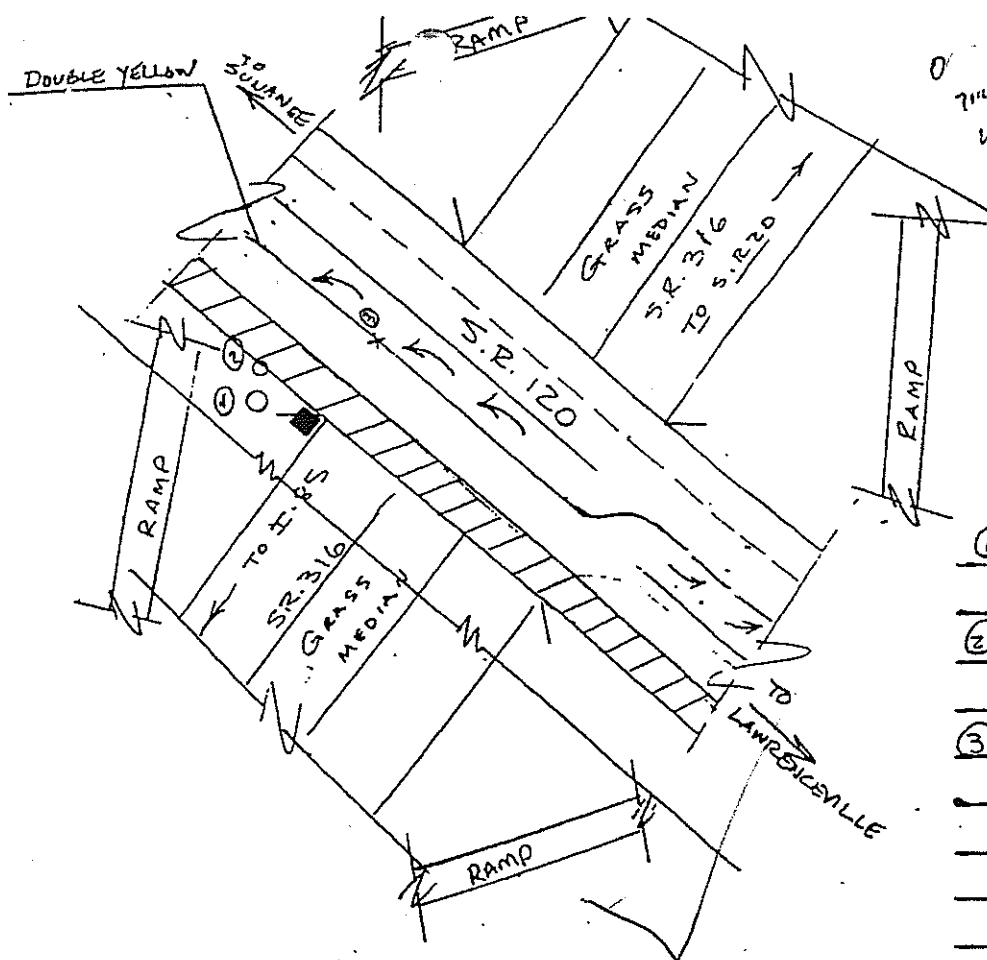
DESCRIPTION	
9.97 ft. ① 3.04	SQ CUT CLOSE TO BRIDGE WALL. (SEE NOTE)
14.08 ft. ② 4.29	M - S. WEST OF CORNER OF BRIDGE WALL.
10.40 ft. ③ 3.23	M - S. WEST OF 1ST GUARDRAIL POST.
	M - S. EAST OF 3RD GUARDRAIL POST.

JOB NO. 1497
COUNTY GWINNETT
STATION NO. BM#20
ELEVATION 916.201 FT

NAVD elev = 916.35
88 Feet



DESCRIPTION	
1.16 ft. ① 5.90	SQ CUT @ BASE OF WALL UNDER BRIDGE
67.91 ft. ② 20.70	M - S. EAST OF W.L. OF I-85 NORTH
	M - S. WEST OF MP#106



BY 067-67

BY-DISC

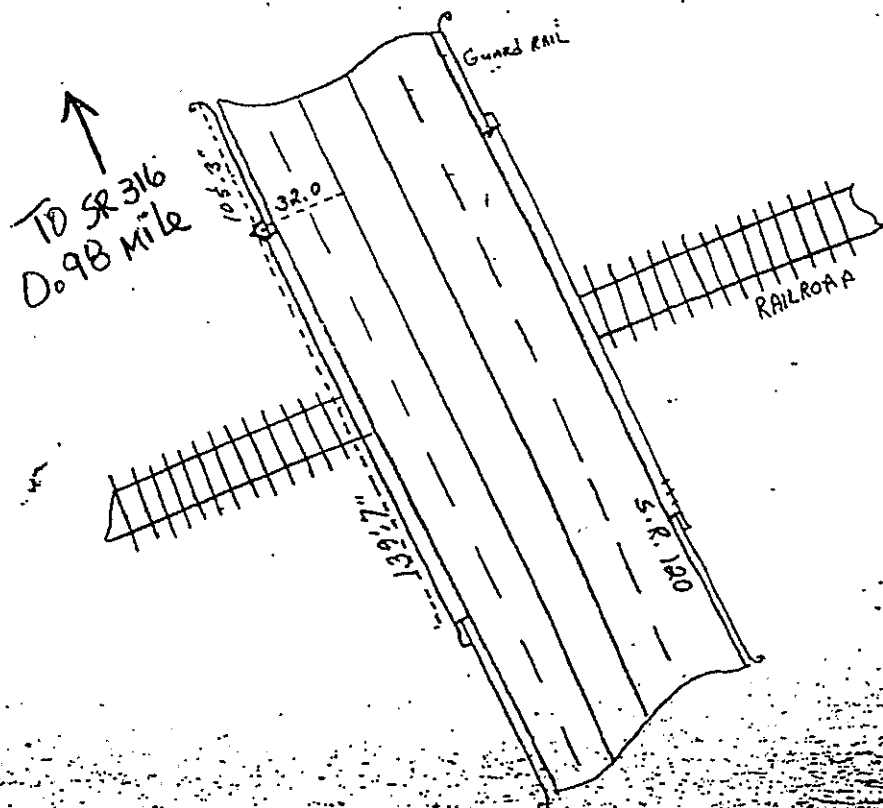
ELEVATION 1032.64

N NAVD
88
elev=1032.7
Feet

① 9.15' S.E. OF A METAL STRAI
POLE

② 17.15' S.E. OF A SIGN

③ 34.0' S.W. OF DOUBLE YELLOW STRIPE



BY 067-68

ELEVATION 1012.96

N
NAV88
elevation
1013.06
Ft.

32.0' Ft. S.W. OF West side of

Turn LANE ON BRIDGE

105.3' Ft. S.E. OF N.W. End of

Guard RAIL

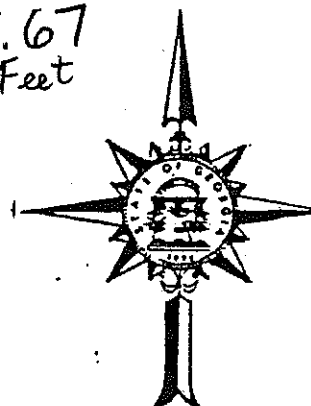
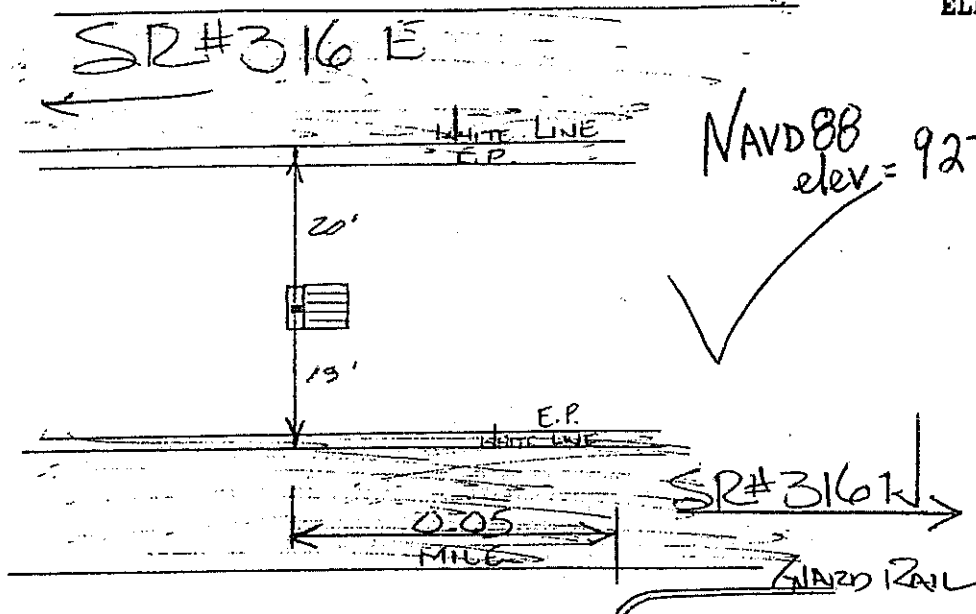
139.7' Ft. N.W. OF S.W. Corner
OF BRIDGE

TO REACH STATION FROM INTERSECTION

S.R. 120 and S.R. 316 go S.E. for 0.98

mile. STATION IS ON RIGHT IN U.W. C

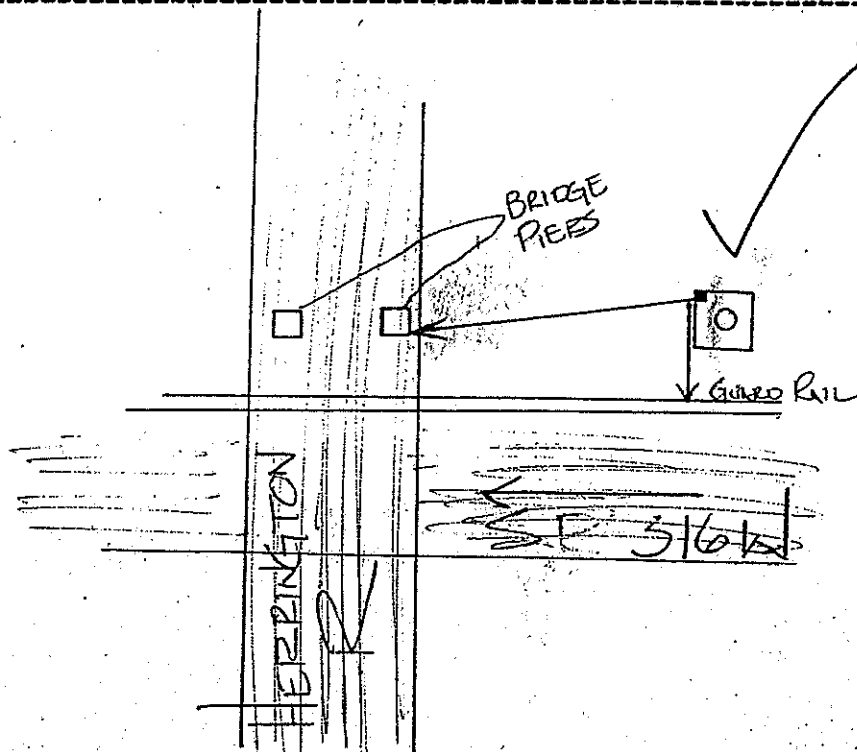
JOB NO. 1382
 COUNTY Gwinnett
 STATION NO. BM 5
 ELEVATION 927.54



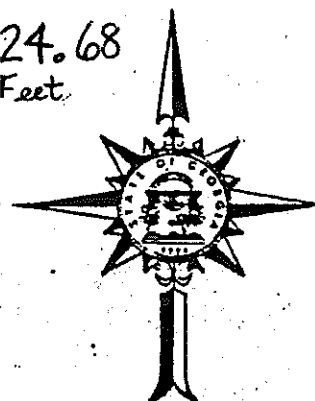
DESCRIPTION SQ CUT IN CONE DROP INLET

19' - FROM W/L
20' - FROM INLET

JOB NO. 1382
 COUNTY Gwinnett
 STATION NO. BM 6
 ELEVATION 924.55



NAVD88
 elev. = 924.68
 Feet



DESCRIPTION SQ CUT IN P/P BASE

10.3' - FROM GUARD RAIL
66.5' - FROM BRIDGE PIER

7

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase , PROGRAM = datasheet, VERSION = 6.96

1 National Geodetic Survey, Retrieval Date = DECEMBER 17, 2003

DF3536 *****

DF3536 DESIGNATION - G030

DF3536 PID - DF3536

DF3536 STATE/COUNTY- GA/GWINNETT

DF3536 USGS QUAD - LAWRENCEVILLE (1998)

DF3536

DF3536

*CURRENT SURVEY CONTROL

DF3536

DF3536*	NAD 83 (1994) -	33 58 24.24350 (N)	083 59 21.21772 (W)	ADJUSTED
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DF3536*	NAVD 88	-	331.4 (meters)	1087. (feet)	VERTCON
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DF3536

DF3536	X	-	554,484.883 (meters)	COMP
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DF3536	Y	-	-5,266,046.535 (meters)	COMP
--------	---	---	-------------------------	------

DF3536	Z	-	3,544,168.970 (meters)	COMP
--------	---	---	------------------------	------

DF3536	LAPLACE CORR-	0.75 (seconds)	DEFLEC99
--------	---------------	----------------	----------

DF3536	ELLIP HEIGHT-	302.07 (meters)	(09/03/97) GPS OBS
--------	---------------	-----------------	--------------------

DF3536	GEOID HEIGHT-	-29.46 (meters)	GEOID99
--------	---------------	-----------------	---------

DF3536

DF3536 HORZ ORDER - FIRST

DF3536 ELLP ORDER - FOURTH CLASS II

DF3536

DF3536.The horizontal coordinates were established by GPS observations

DF3536.and adjusted by the National Geodetic Survey in September 1997.

DF3536

DF3536.The NAVD 88 height was computed by applying the VERTCON shift value to

DF3536.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

DF3536

DF3536.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DF3536

DF3536.The Laplace correction was computed from DEFLEC99 derived deflections.

DF3536

DF3536.The ellipsoidal height was determined by GPS observations

DF3536.and is referenced to NAD 83.

DF3536

DF3536.The geoid height was determined by GEOID99.

DF3536

DF3536;		North	East	Units	Scale	Converg.
---------	--	-------	------	-------	-------	----------

DF3536;SPC GA W	-	440,567.751	716,396.190	MT	0.99990331	+0 05 57.0
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DF3536;UTM 17	-	3,763,234.840	223,817.932	MT	1.00054040	-1 40 17.3
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DF3536;UTM 16	-	3,763,293.159	778,173.420	MT	1.00055401	+1 41 00.7
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DF3536

DF3536

SUPERSEDED SURVEY CONTROL

DF3536

DF3536	NAD 83 (1986) -	33 58 24.25010 (N)	083 59 21.21723 (W)	AD() 1
--------	-----------------	--------------------	---------------------	---------

DF3536	NGVD 29 (08/10/93)	331.4 (m)	1087. (f)	GPS OBS
--------	--------------------	-----------	-----------	---------

DF3536

DF3536.Superseded values are not recommended for survey control.

DF3536.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF3536.See file dsdata.txt to determine how the superseded data were derived.

DF3536

DF3536_U.S. NATIONAL GRID SPATIAL ADDRESS: 17SKT2381863235 (NAD 83)

NAVD88
elevation = 1088.056
feet

8

DF3536_MARKER: A = ALUMINUM MARKER
 DF3536_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF3536_STAMPING: G030
 DF3536_MARK LOGO: GWINNE
 DF3536_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
 DF3536_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
 DF3536+STABILITY: POSITION/ELEVATION WELL
 DF3536_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF3536+SATELLITE: SATELLITE OBSERVATIONS - 1989

DF3536	HISTORY	- Date	Condition	Report By
DF3536	HISTORY	- 1989	MONUMENTED	HOBBS

DF3536

STATION DESCRIPTION

DF3536

DF3536'DESCRIBED BY HOBBS AND ASSOCIATES 1989
 DF3536'STATION IS LOCATED IN GWINNETT COUNTY, 1.5 KM (0.9 MI) NORTH OF
 DF3536'DOWNTOWN LAWRENCEVILLE AND 8.5 KM (5.3 MI) SOUTHWEST OF DACULA.
 DF3536'TO REACH THE STATION FROM THE INTERSECTION OF S.R. 316 AND S.R. 120,
 DF3536'PROCEED EAST ON S.R. 316 FOR 2.17 KM (1.35 MI) TO THE INTERSECTION OF
 DF3536'COLLINS HILL ROAD. GO SOUTH ON COLLINS HILL ROAD FOR 0.8 KM
 DF3536'(0.5 MI) TO THE INTERSECTION OF HURRICANE SHOALS ROAD. PROCEED EAST
 DF3536'ON HURRICANE SHOALS ROAD 0.4 KM (0.2 MI) TO THE STATION LOCATED ON
 DF3536'THE NORTH RIGHT-OF-WAY OF THE ROAD, 4.3 M (14.1 FT) FROM THE EDGE OF
 DF3536'THE PAVEMENT. STATION IS LOCATED ON THE EAST RIGHT-OF-WAY OF THE
 DF3536'ENTRANCE DRIVE TO A POWER COMPANY SUB-STATION.
 DF3536'THE STATION IS 9.2 M (30.2 FT) N61W OF THE CENTERLINE OF HURRICANE
 DF3536'SHOALS ROAD, 5.12 M (16.80 FT) N53E OF THE CENTERLINE OF THE ENTRANCE
 DF3536'DRIVE TO THE SUB-STATION, 23.6 M (77.4 FT) N22W OF A FIRE HYDRANT,
 DF3536'AND 18.9 M (62.0 FT) S58W OF UTILITY POLE NO. 62.
 DF3536'TO REACH THE AZIMUTH MARK FROM THE GPS STATION, PROCEED SOUTH ON
 DF3536'HURRICANE SHOALS ROAD FOR 0.32 KM (0.20 MI) TO THE MARK LOCATED ON
 DF3536'THE WEST RIGHT-OF-WAY OF THE ROAD, IN THE SOUTHWEST CORNER OF THE
 DF3536'INTERSECTION OF COLLINS HILL ROAD AND HURRICANE SHOALS ROAD. MARK IS
 DF3536'1.3 M (4.3 FT) S85W OF THE EDGE OF THE PAVEMENT, AND 5.3 M (17.4 FT)
 DF3536'N06E OF A ROAD MARKER FOR COLLINS HILL ROAD AND HURRICANE SHOALS ROAD
 DF3536'AND A STOP SIGN. THE AZIMUTH MARK IS STAMPED G230.

*** retrieval complete.
 Elapsed Time = 00:00:01

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 101

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: J. Jones DATE: 12/30/04 UNITS OF MEASURE: FEET

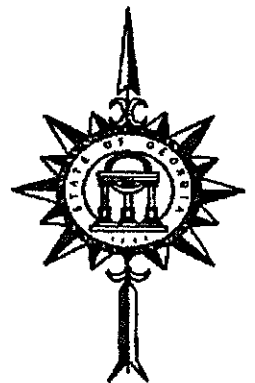
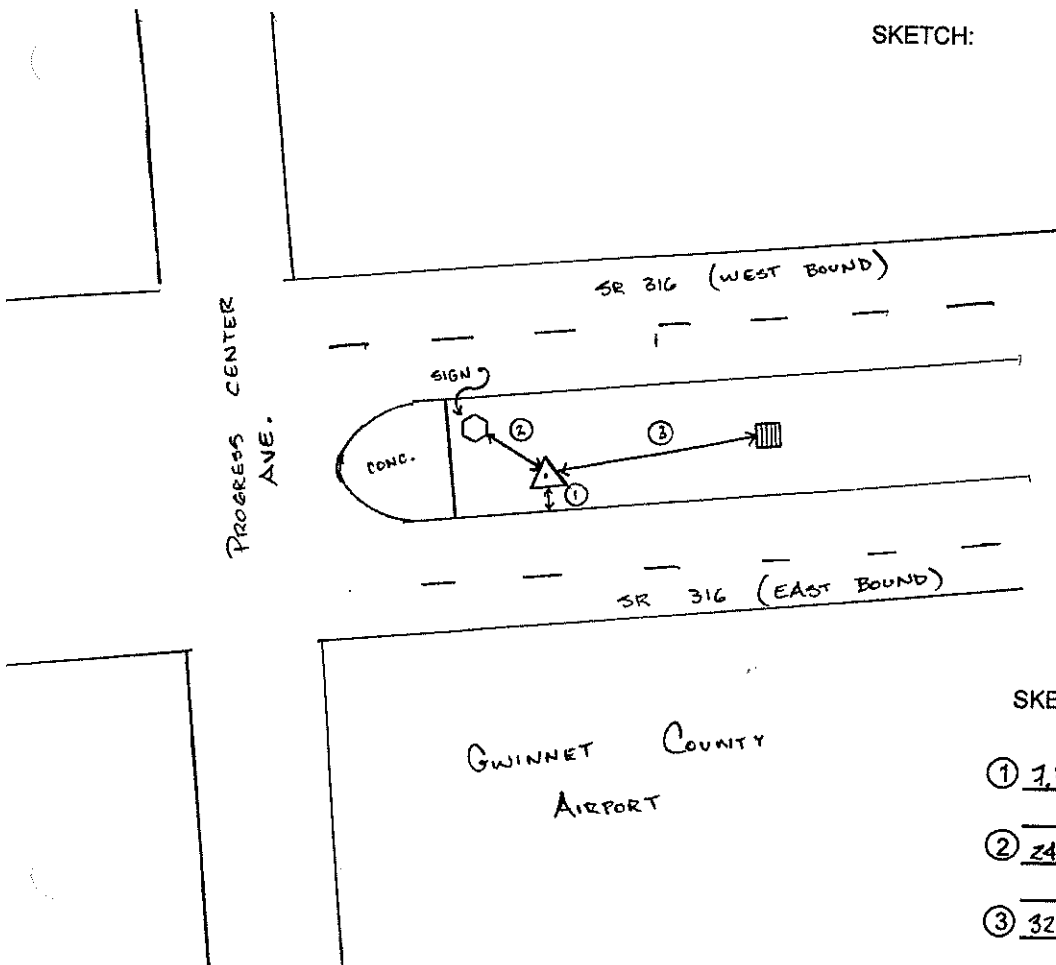
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1038.20

NORTHING (Y): 1448951.765 EASTING (X): 2357537.049

TO REACH DESCRIPTION:

Δ 101 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. It is
located approx. 2220' from Intersection of Hi-Hope Rd + SR
316 in Median of SR 316

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 1.3' North of EP of East Bound
Lane of SR 316
- ② 24.6' SE of "Do Not Enter" Road Sign in
Median of SR 316
- ③ 32.0' West of C&D in Median of
SR 316

VISIBLE FROM GROUND TO: Δ 847 VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 102

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

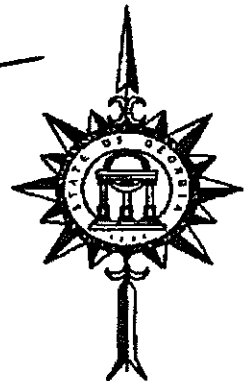
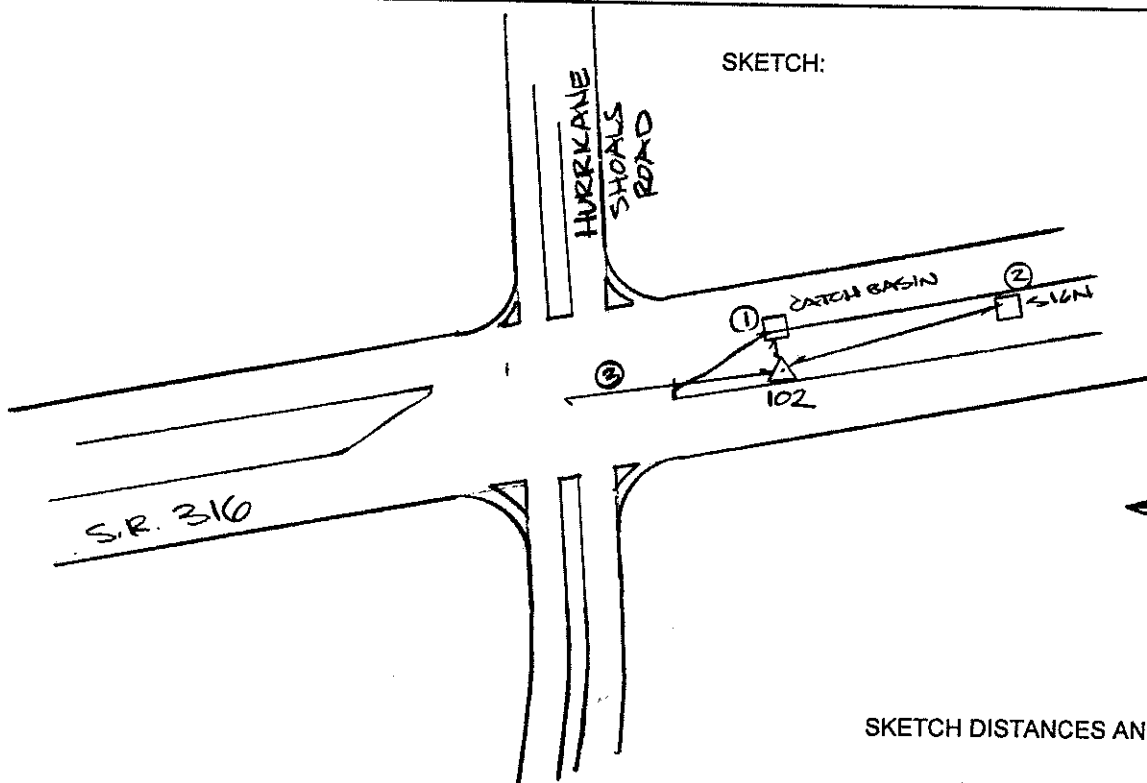
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1041.65

NORTHING (Y): 1448487.228 EASTING (X): 2355554.159

TO REACH DESCRIPTION:

Δ 102 is a 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SR 316 AND HURRICANE SHOALS ROAD, TRAVEL
APPROXIMATELY 188 FEET EAST ON 316 TO MEDIAN.



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 45' SOUTH OF CATCH
BASIN
- ② 64' SOUTH WEST OF SIGN
- ③ 188' EAST OF INTERSECTION

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 103

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

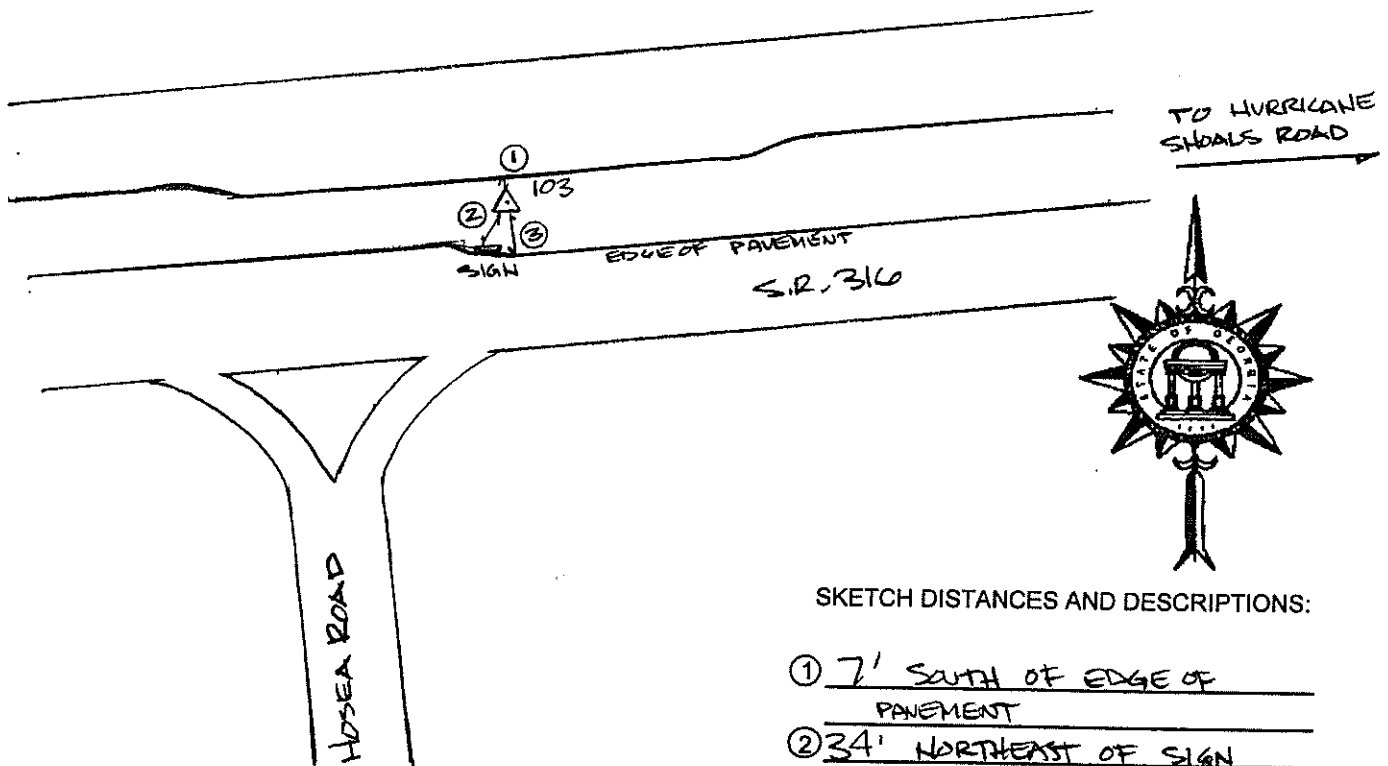
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1049.83

NORTHING (Y): 1448079.547 EASTING (X): 2353658.603

TO REACH DESCRIPTION:

Δ 103 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE
FROM THE INTERSECTION OF HURRICANE SHOALS ROAD AND S.R. 316,
TRAVEL WEST APPROXIMATELY 0.33 MILES TO MEDIAN AT LEFT. DIRECTLY
ACROSS FROM HOSEA ROAD.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 7' SOUTH OF EDGE OF PAVEMENT
- ② 34' NORTHEAST OF SIGN
- ③ 37' NORTH OF EDGE OF PAVEMENT

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 104

JOB NUMBER: 06119202 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

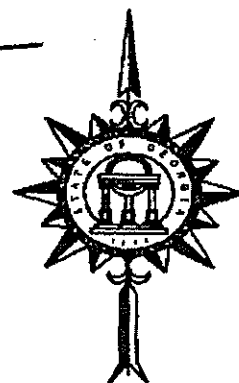
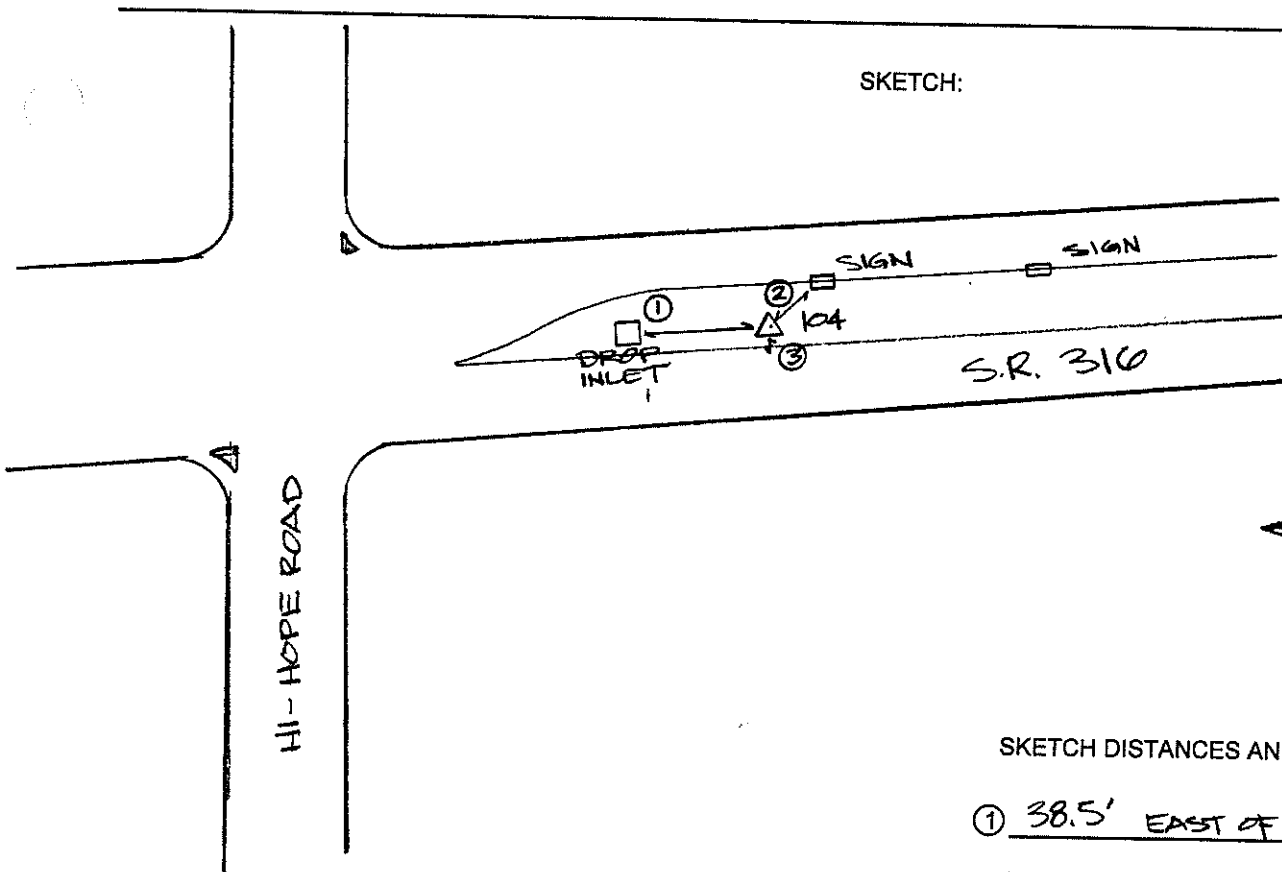
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1096.76

NORTHING (Y): 1447695.849 EASTING (X): 2352033.544

TO REACH DESCRIPTION:

Δ 104 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION SR 316 AND HI-HOPE ROAD TRAVEL EAST ON 316
APPROXIMATELY 512 FEET (0.09 MILE) TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 38.5' EAST OF DROP INLET,
- ② 14.5' SOUTHWEST OF ROAD
SIGN.
- ③ 35.5' NORTH OF EDGE OF
TRAVEL LANE.

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 105

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

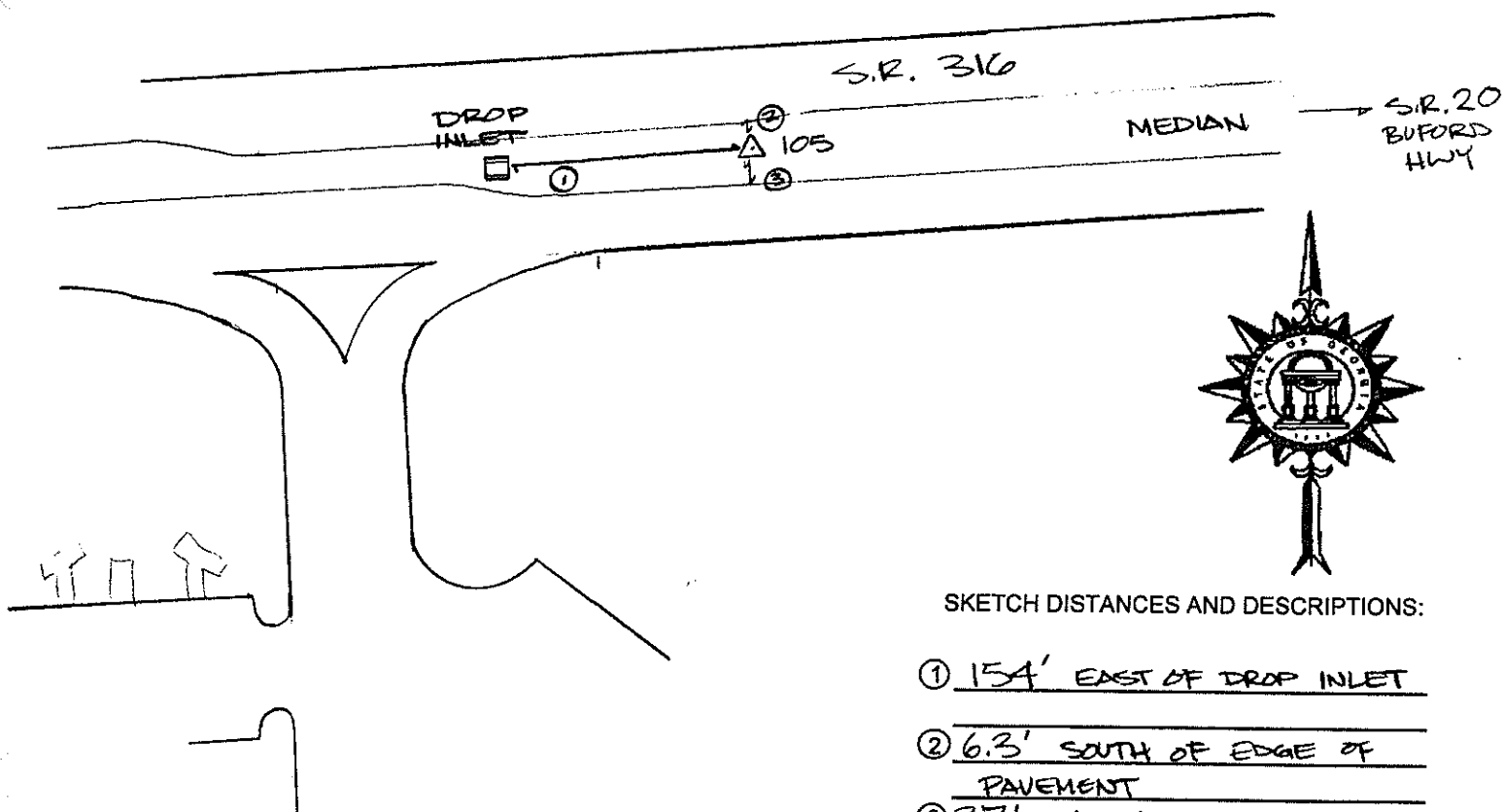
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1069.77

NORTHING (Y): 1447285.090 EASTING (X): 2350240.639

TO REACH DESCRIPTION:

Δ 105 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF BUFORD HWY AND 316, TRAVEL WEST ON 316
APPROXIMATELY 0.25 MILE TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 154' EAST OF DROP INLET
- ② 6.3' SOUTH OF EDGE OF PAVEMENT
- ③ 37' NORTH OF EDGE OF PAVEMENT

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 106

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1067.31

NORTHING (Y): 1446874.867 EASTING (X): 2348609.077

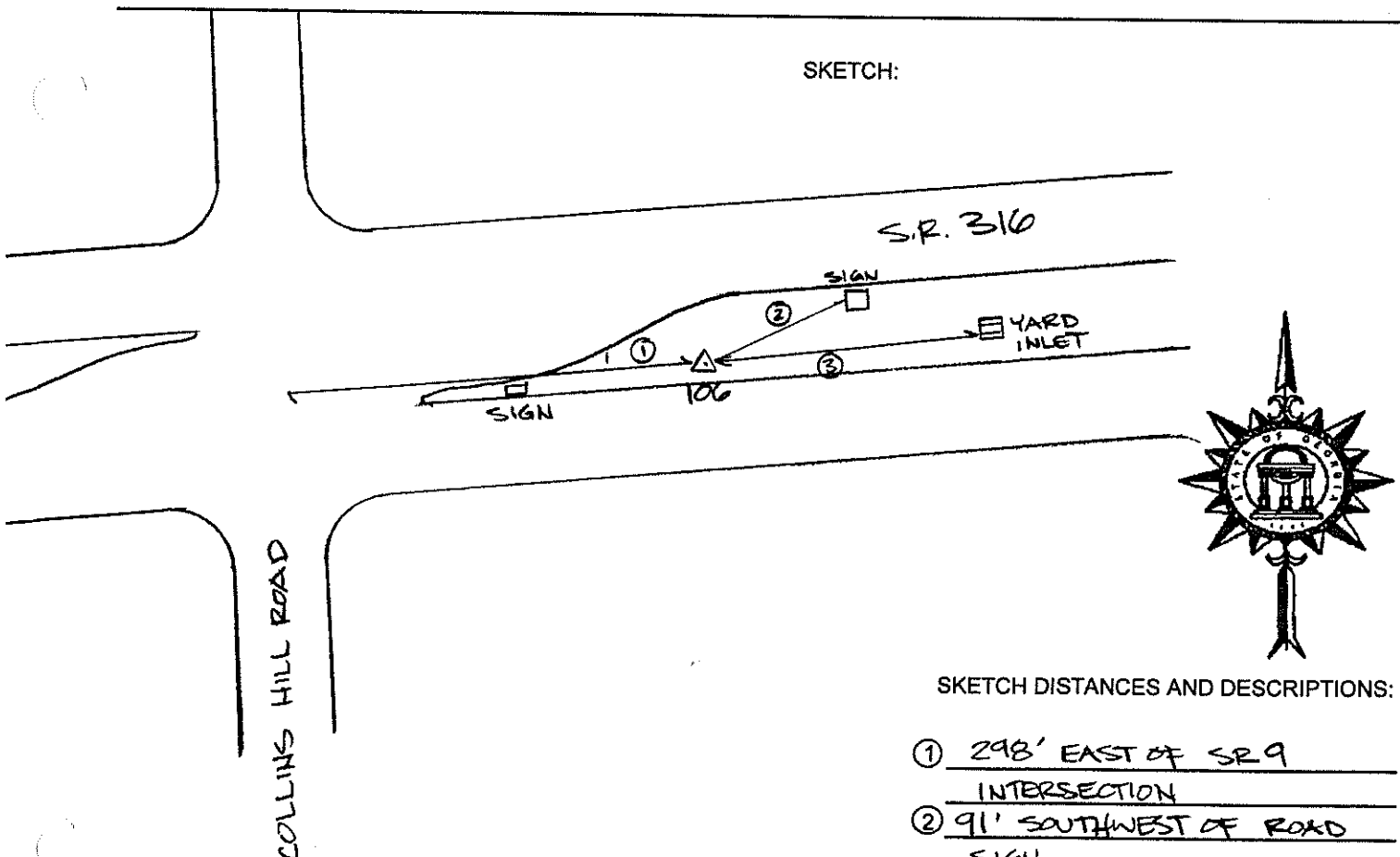
TO REACH DESCRIPTION:

Δ 106 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE.

FROM THE INTERSECTION OF COLLINS HILL ROAD AND S.R. 316, TRAVEL

EAST ON 316 APPROXIMATELY 300 FEET TO MEDIAN AT LEFT

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 298' EAST OF SR 9
INTERSECTION
- ② 91' SOUTHWEST OF ROAD
SIGN
- ③ 213' WEST OF YARD INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 107

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

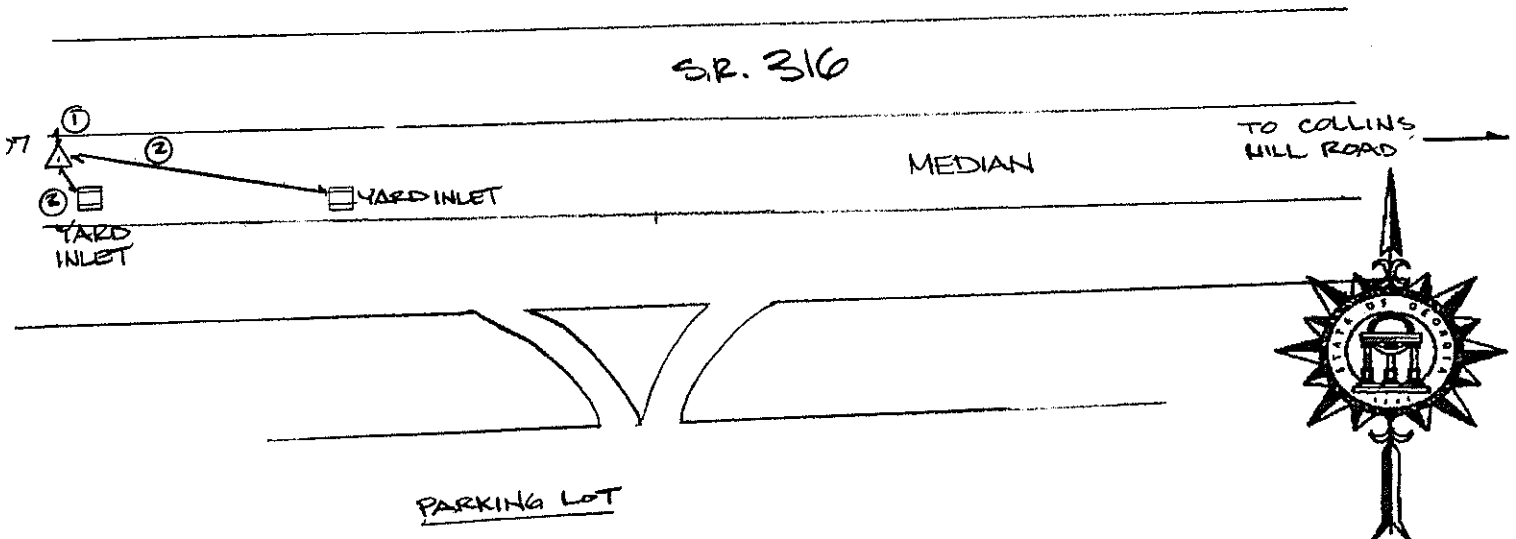
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1041.93

NORTHING (Y): 1446489.571 EASTING (X): 2346818.288

TO REACH DESCRIPTION:

Δ 107 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF COLLINS HILL ROAD AND 316, TRAVEL WESTBOUND
ON 316 APPROXIMATELY 0.28 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 22' SOUTH OF EDGE OF
TRAVEL LANE
- ② 308' WEST OF YARD INLET
- ③ 12.1' NORTHWEST OF YARD
INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 108

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

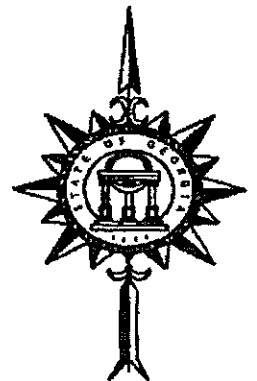
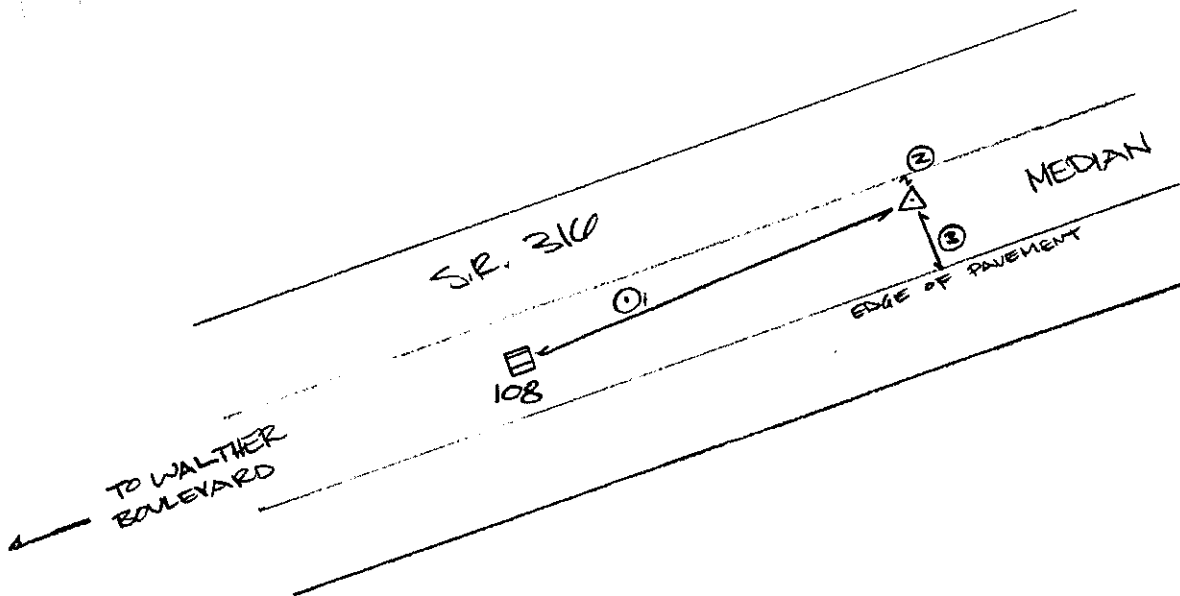
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 83 ELEVATION: 1020.01

NORTHING (Y): 1445961.090 EASTING (X): 2345742.953

TO REACH DESCRIPTION:

Δ 108 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF WALTER BOULEVARD AND 316, TRAVEL NORTHEAST ON 316
APPROXIMATELY 0.28 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 90' NORTHEAST OF YARD
INLET
- ② 10.5' SOUTH OF EDGE OF
PAVEMENT
- ③ 29.5' NORTH OF EDGE OF
PAVEMENT

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ109

JOB NUMBER: 06119202 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1034.46

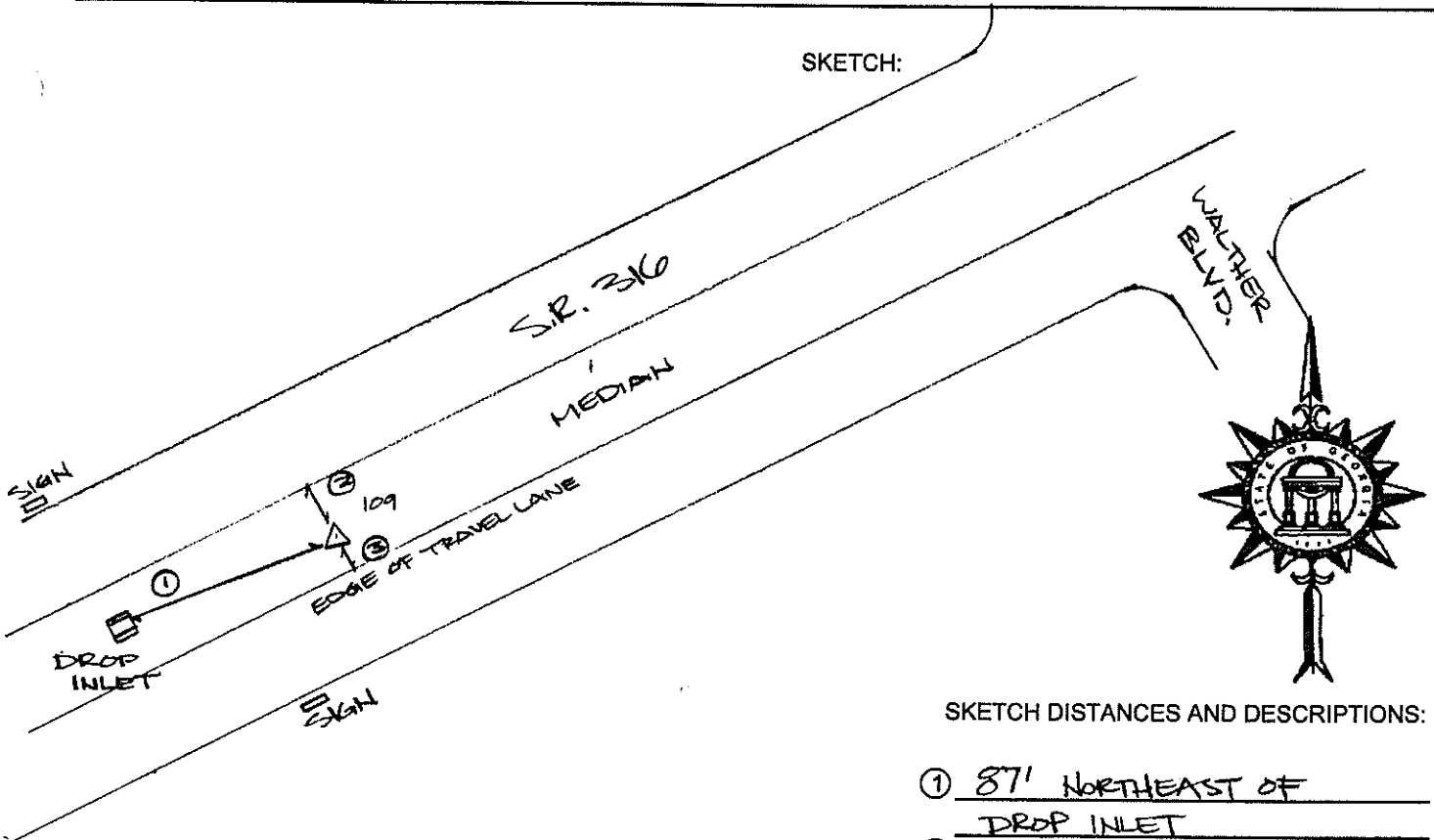
NORTHING (Y): 1444579.505 EASTING (X): 2344043.032

TO REACH DESCRIPTION:

Δ109 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE.

FROM THE INTERSECTION OF WALTHER BLVD. AND S.R. 316, TRAVEL
SOUTHWEST ON 316 APPROXIMATELY 716 FEET (0.07 MILES) TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 87' NORTHEAST OF
DROP INLET
- ② 20.6' SOUTH OF EDGE OF
TRAVEL LANE
- ③ 19.2' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 110

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

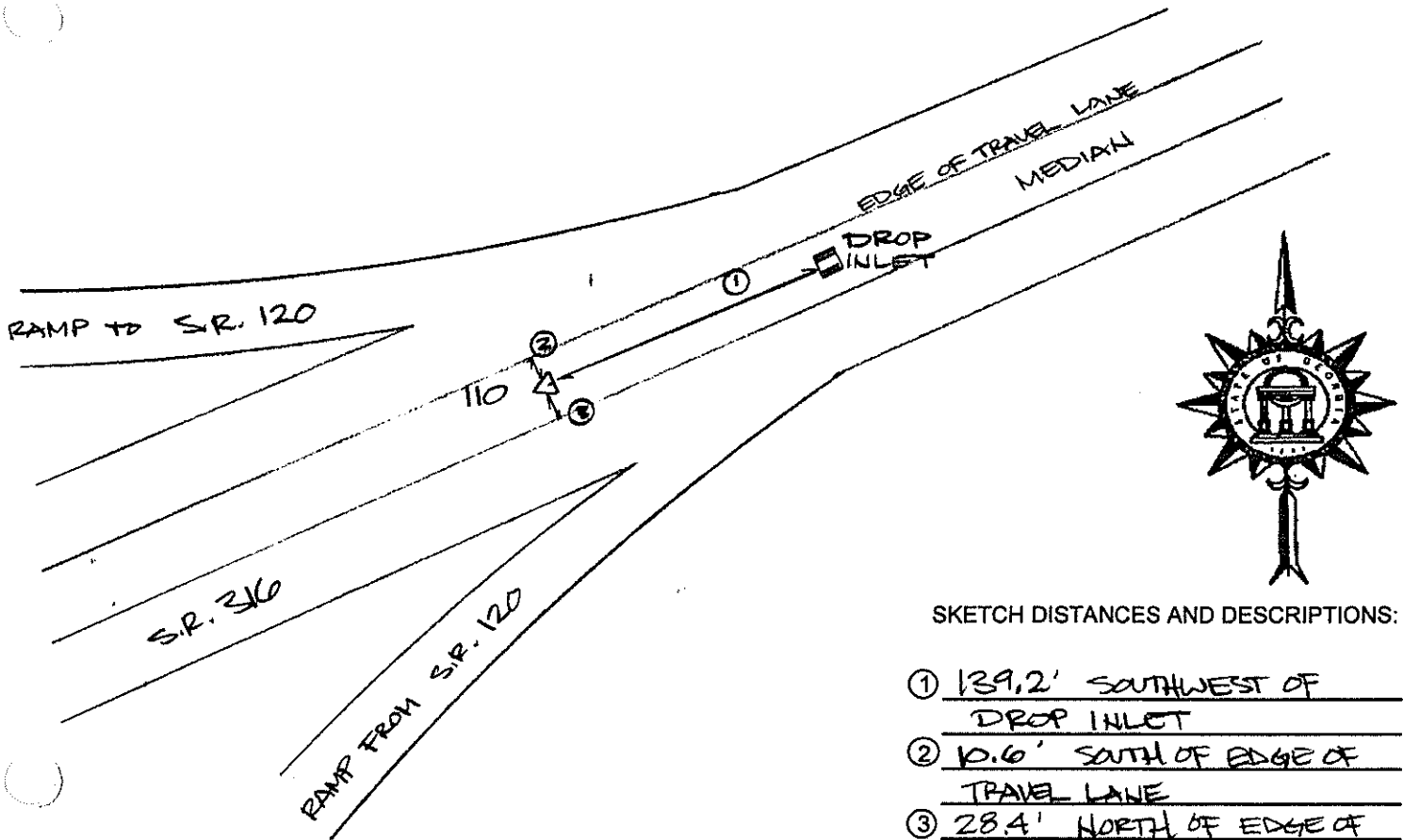
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1018.77

NORTHING (Y): 1443570.734 EASTING (X): 2342640.769

TO REACH DESCRIPTION:

Δ 110 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF WALTHER BOULEVARD AND S.R. 316, TRAVEL
SOUTHWEST APPROXIMATELY 0.46 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 139.2' SOUTHWEST OF
DROP INLET
- ② 10.6' SOUTH OF EDGE OF
TRAVEL LANE
- ③ 28.4' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ III

JOB NUMBER: 06119202 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

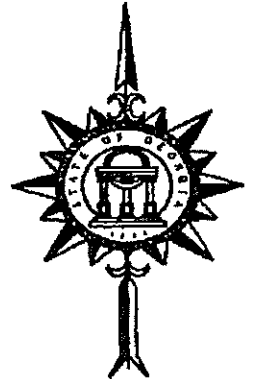
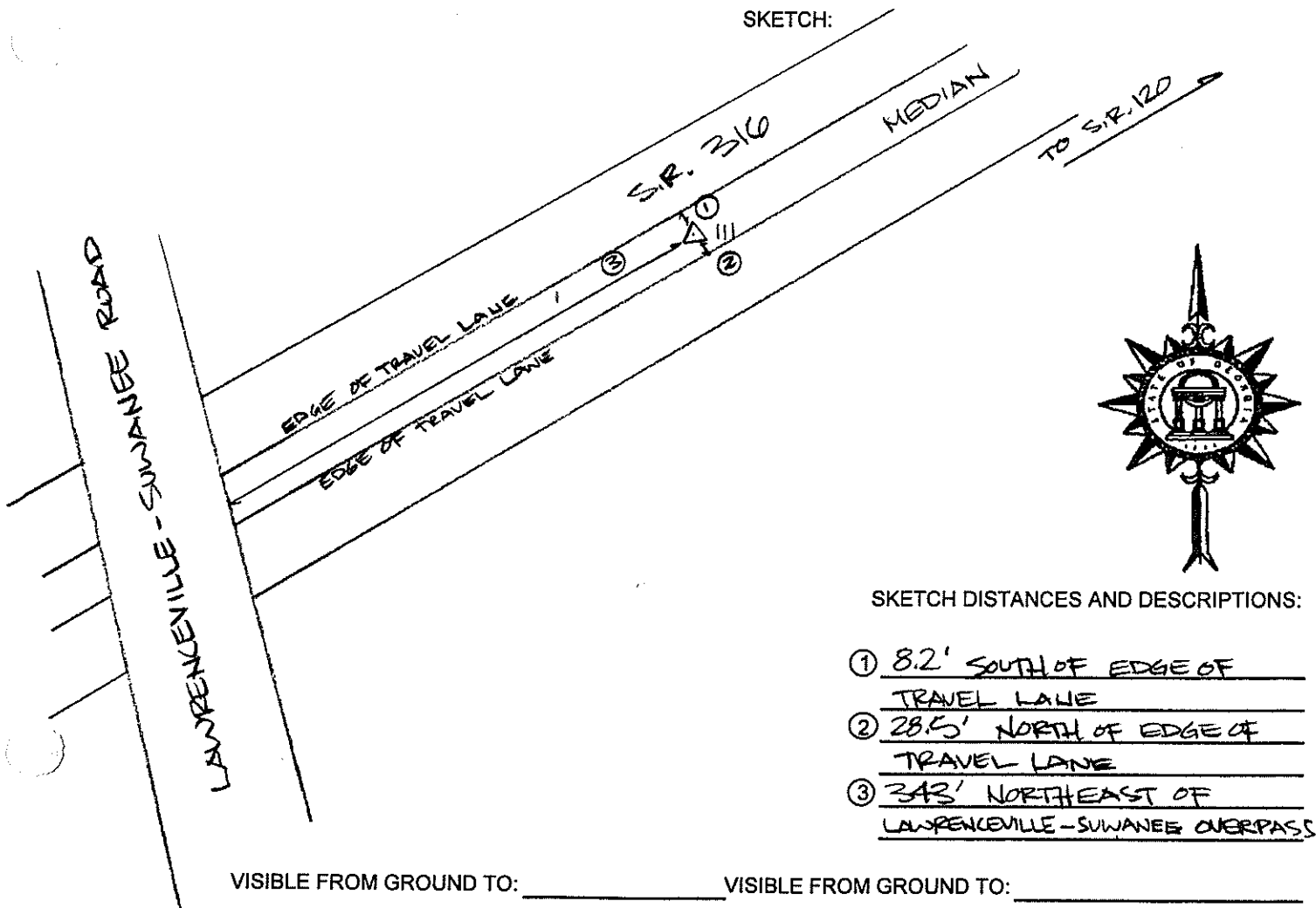
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NVD 88 ELEVATION: 1018.05

NORTHING (Y): 1442037.790 EASTING (X): 2340536.147

TO REACH DESCRIPTION:

Δ III IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE
FROM THE INTERSECTION OF SR. 120 AND THE SR. 316 WESTBOUND RAMP,
TRAVEL APPROXIMATELY 0.41 MILES WESTBOUND ON 316 TO MEDIAN

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 8.2' SOUTH OF EDGE OF TRAVEL LANE
- ② 28.5' NORTH OF EDGE OF TRAVEL LANE
- ③ 343' NORTHEAST OF LAURENCEVILLE - SUWANEE OVERPASS

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 112

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

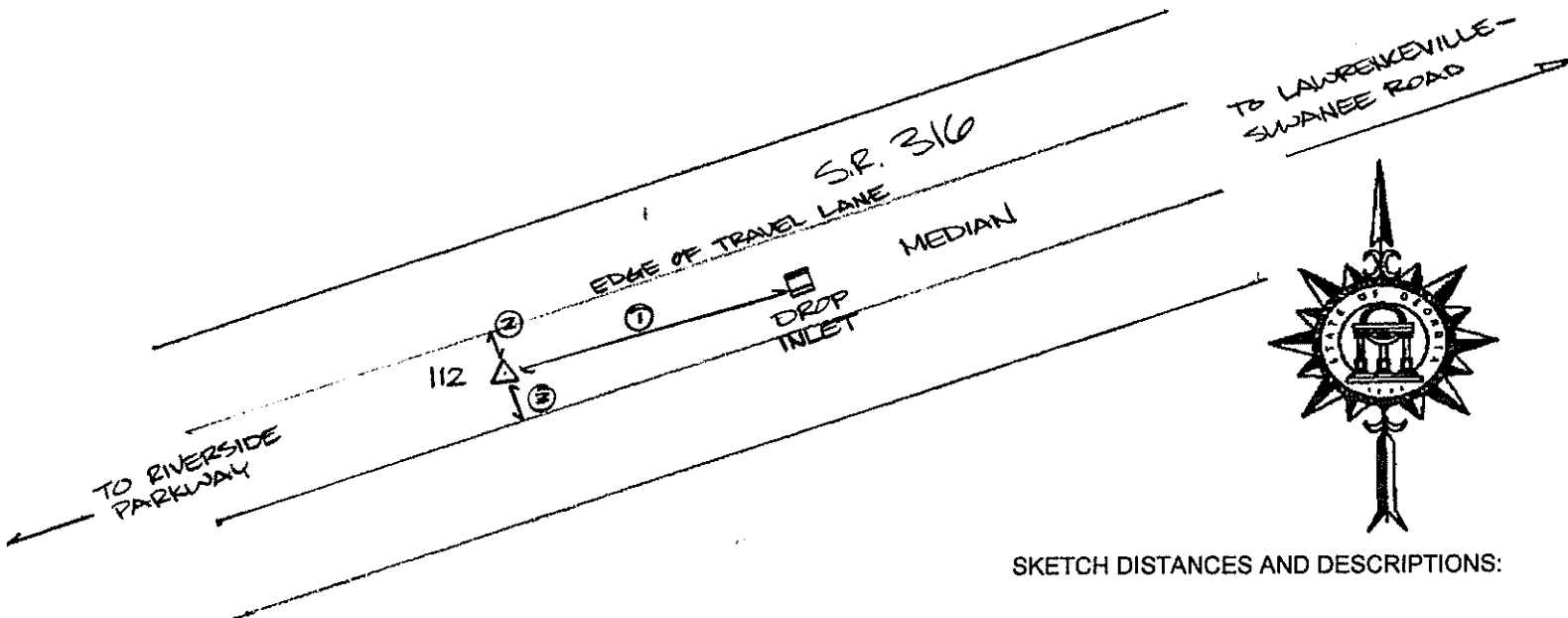
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 970.63

NORTHING (Y): 1441274.971 EASTING (X): 2338880.612

TO REACH DESCRIPTION:

Δ 112 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE 316 EASTBOUND RAMP,
TRAVEL EASTBOUND ON 316 APPROXIMATELY 0.47 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 125.4' WEST OF DROP
INLET
- ② 8.9' SOUTH OF EDGE
OF TRAVEL LANE
- ③ 28.7' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 113

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

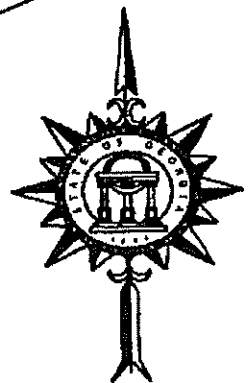
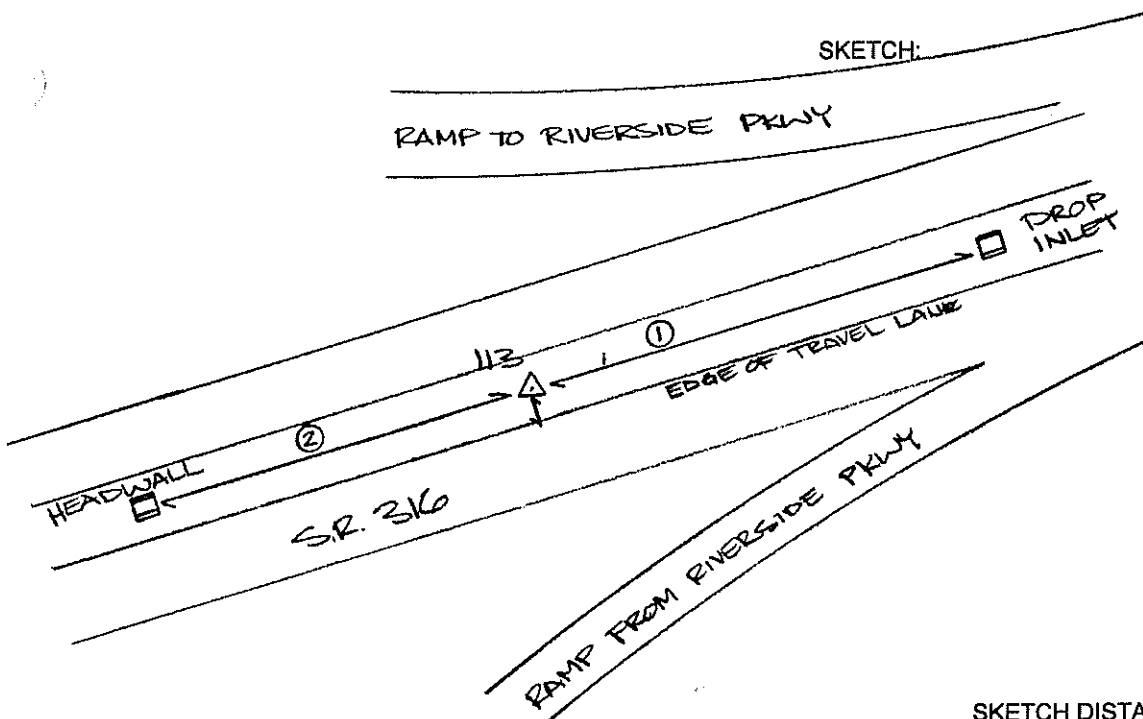
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 937.33

NORTHING (Y): 1440706.334 EASTING (X): 2337286.914

TO REACH DESCRIPTION:

Δ 113 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE.
FROM THE INTERSECTION OF SR. 120 NORTH AND THE 316 WEST RAMP, TRAVEL
DOWN 316 WESTBOUND APPROXIMATELY 1.08 MILES TO MEDIAN

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 108.4' WEST OF DROP INLET
- ② 229.4' EAST OF HEADWALL
- ③ 28.9' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 114

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

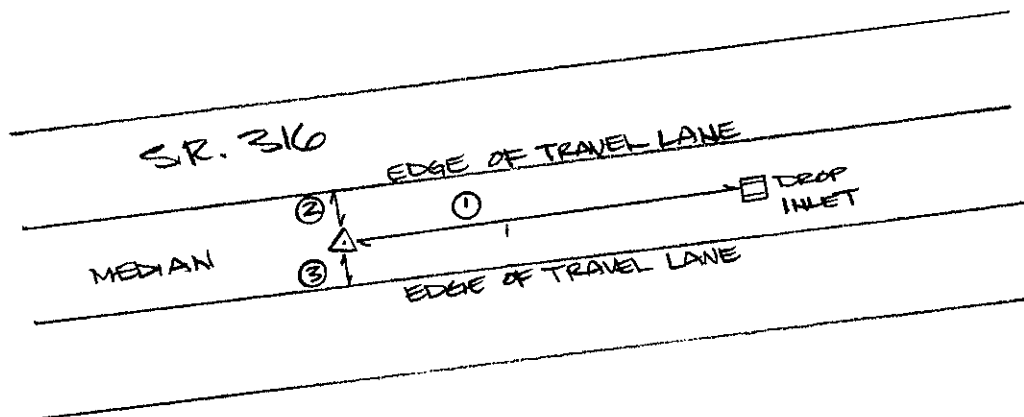
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 911.29

NORTHING (Y): 1440068.393 EASTING (X): 2334137.422

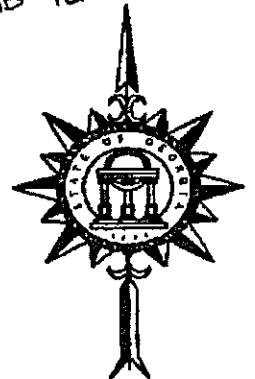
TO REACH DESCRIPTION:

Δ 114 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE S.R. 316 WESTBOUND RAMP,
TRAVEL WESTBOUND 316 APPROXIMATELY 0.48 MILES TO MEDIAN.

SKETCH:



TO RIVERSIDE
PARKWAY
AND YELLOW RIVER



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 213' WEST OF DROP INLET
- ② 26.1 SOUTH OF EDGE OF TRAVEL LANE
- ③ 10.5' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 115

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA.WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

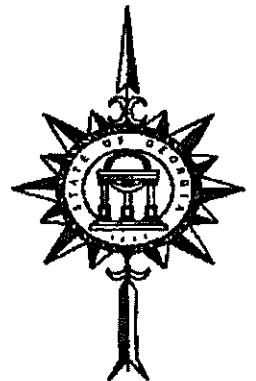
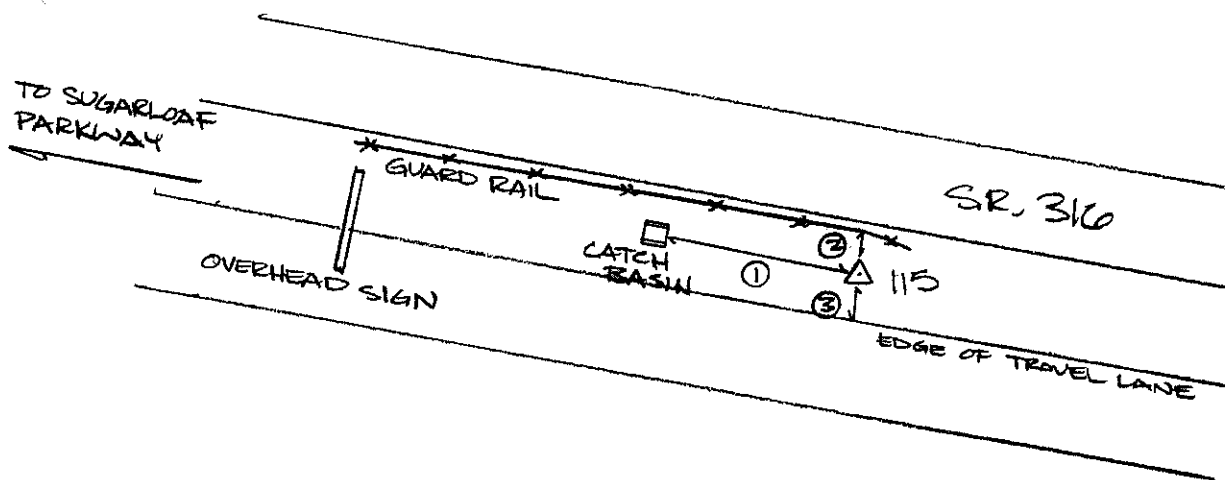
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 935.87

NORTHING (Y): 1440278.213 EASTING (X): 2332442.553

TO REACH DESCRIPTION:

Δ 115 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE 316 EASTBOUND RAMP, TRAVEL
316 EAST APPROXIMATELY 0.08 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 80.7' EAST OF CATCH BASIN
- ② 8.3' SOUTH OF GUARD RAIL
- ③ 19.1' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 116

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

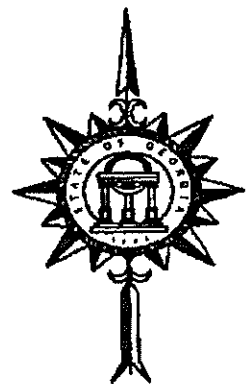
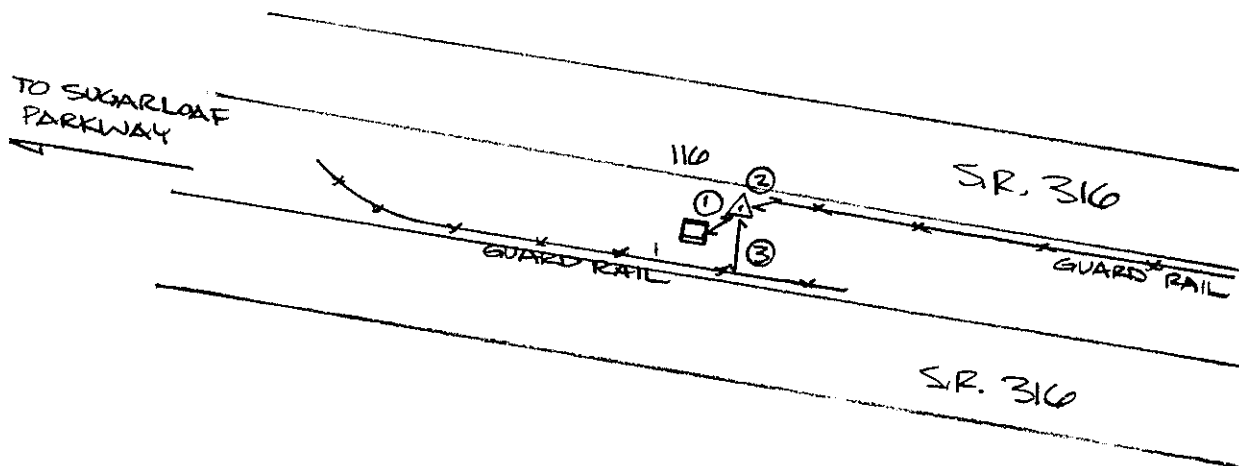
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 966.60

NORTHING (Y): 1440495.235 EASTING (X): 2330778.450

TO REACH DESCRIPTION:

Δ 116 IS A 3/4" REBAR SET 2' BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE 316 EASTBOUND RAMP,
TRAVEL EAST APPROXIMATELY 0.36 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 9.1' NORTHEAST OF
DROP INLET
- ② 3.4' WEST OF END OF
GUARD RAIL
- ③ 23.3' NORTH OF GUARD
RAIL

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 117

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

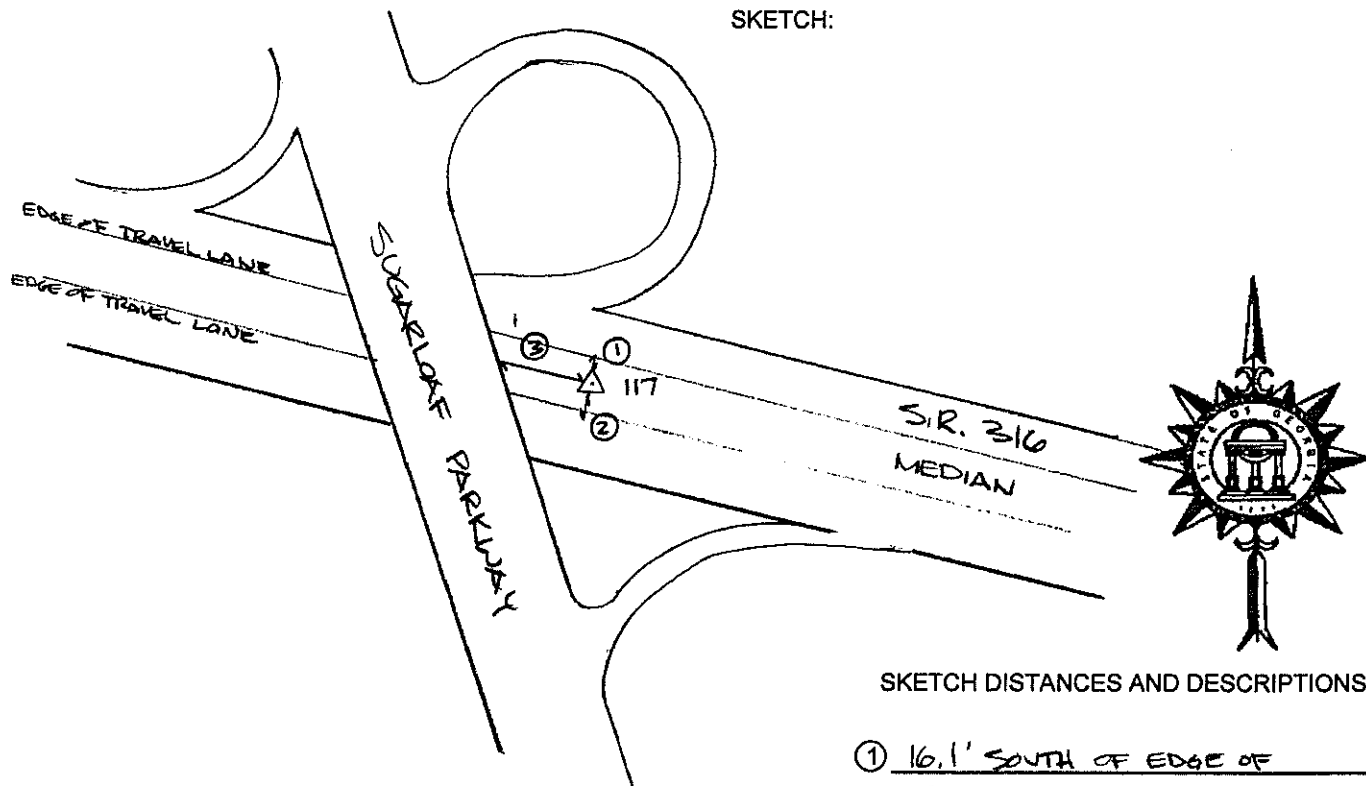
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 990.29

NORTHING (Y): 1440708.014 EASTING (X): 2328987.233

TO REACH DESCRIPTION:

Δ 117 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE SR. 316 WEST RAMP, TRAVEL
316 WESTBOUND APPROXIMATELY 1.46 MILES TO MEDIAN AT LEFT (JUST
BEFORE THE SUGARLOAF PARKWAY OVERPASS).

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 16.1' SOUTH OF EDGE OF TRAVEL LANE
- ② 20.5' NORTH OF EDGE OF TRAVEL LANE
- ③ 195' (APPROX.) EAST OF SUGARLOAF PKWY OVERPASS

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 118

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

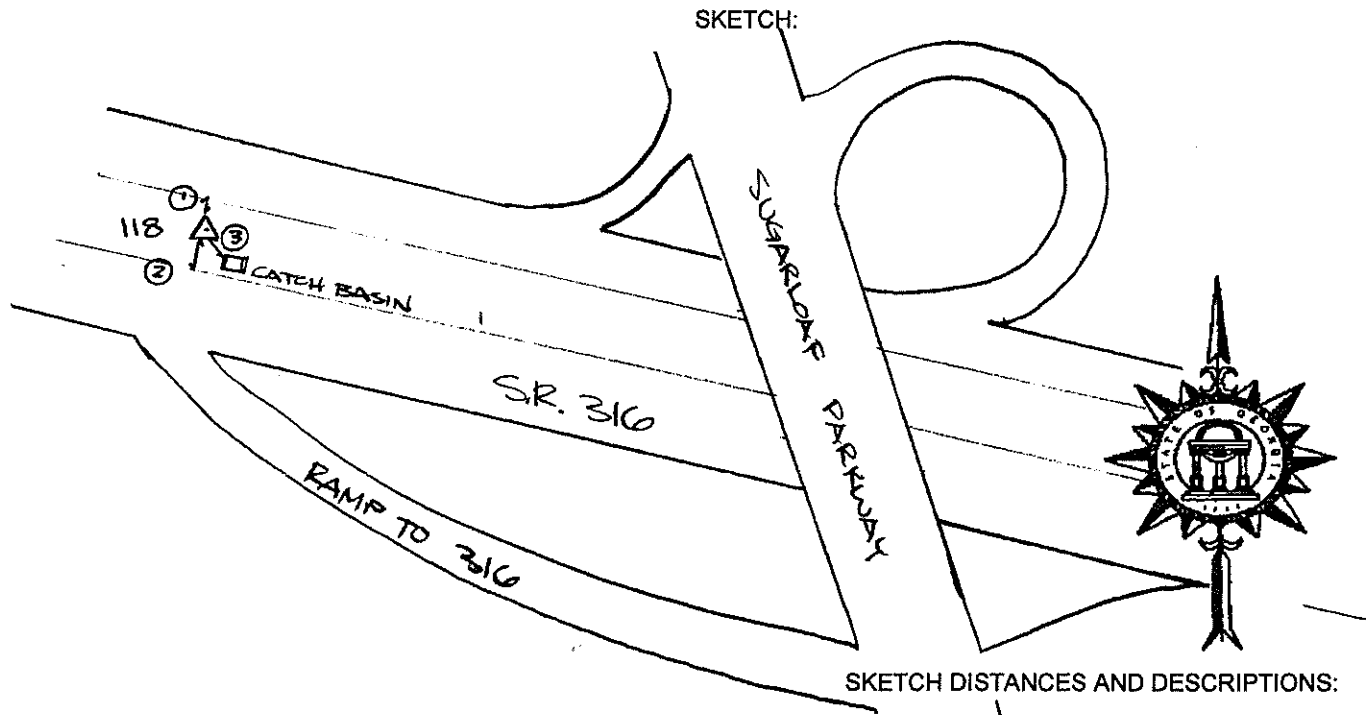
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 980.87

NORTHING (Y): 1440916.717 EASTING (X): 2327385.538

TO REACH DESCRIPTION:

Δ 118 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION OF SUGARLOAF PARKWAY (SOUTHBOUND) AND THE 316 WEST RAMP,
TRAVEL APPROX. 0.22 MILES WESTBOUND ON 316. Δ 118 IS IN MEDIAN
AT LEFT.



- ① 61.8' SOUTH OF EDGE OF
TRAVEL LANE
- ② 30.9' NORTH OF EDGE OF
TRAVEL LANE
- ③ 17.3' NORTHWEST OF
CATCH BASIN

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 120

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

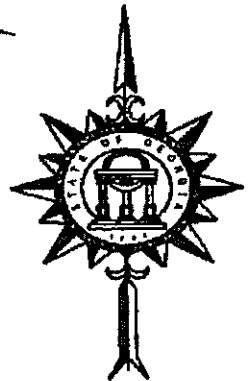
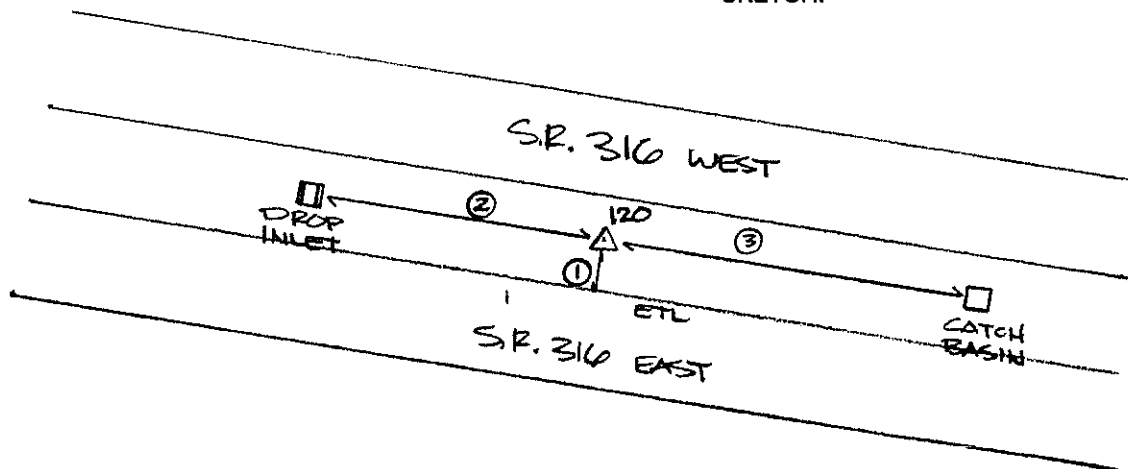
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 912.84

NORTHING (Y): 1441315.101 EASTING (X): 2324033.403

TO REACH DESCRIPTION:

Δ 120 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY SOUTH AND S.R. 316 WEST, TRAVEL
WESTBOUND ON 316 APPROXIMATELY 0.87 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 10.6' NORTH OF EDGE OF TRAVEL LANE
- ② 206' EAST OF DROP INLET
- ③ 141' WEST OF CATCH BASIN

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 119

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 933.18

NORTHING (Y): 1441119.408 EASTING (X): 2325740.342

TO REACH DESCRIPTION:

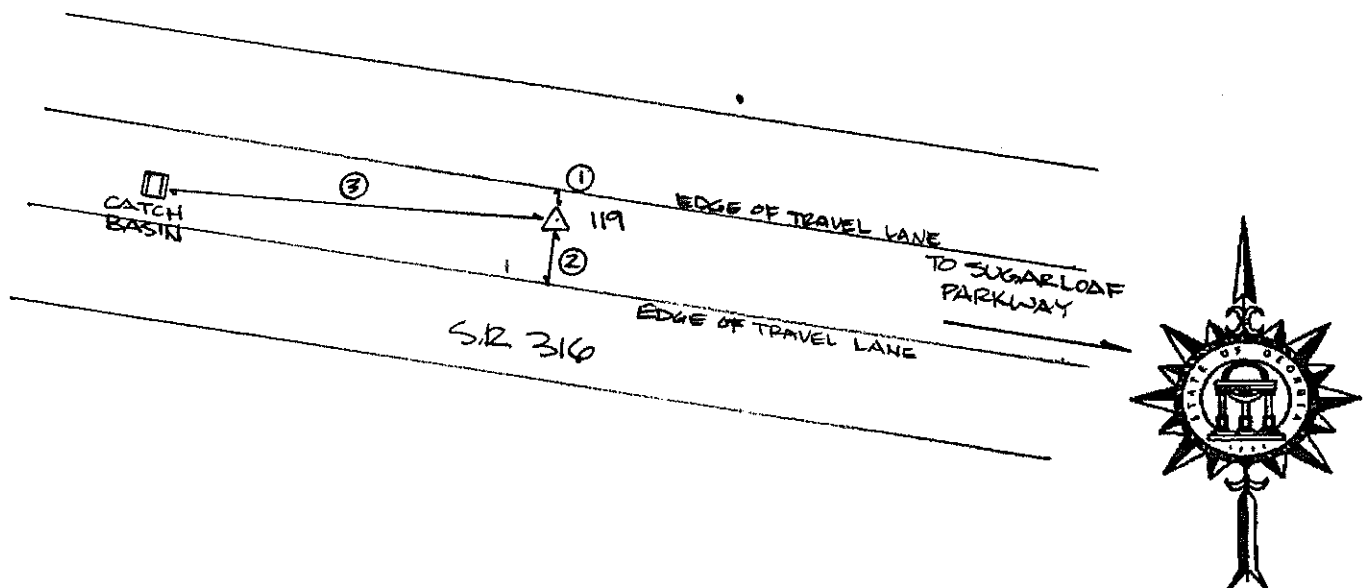
Δ 119 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE,

FROM THE INTERSECTION OF SUGARLOAF PARKWAY SOUTH AND THE 316 WEST

RAMP, TRAVEL WESTBOUND ON 316 APPROXIMATELY 0.54 MILES TO MEDIAN

AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 8.4' SOUTH OF EDGE OF TRAVEL LANE
- ② 27.3' NORTH OF EDGE OF TRAVEL LANE
- ③ 123.9' EAST OF CATCH BASIN

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 121

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

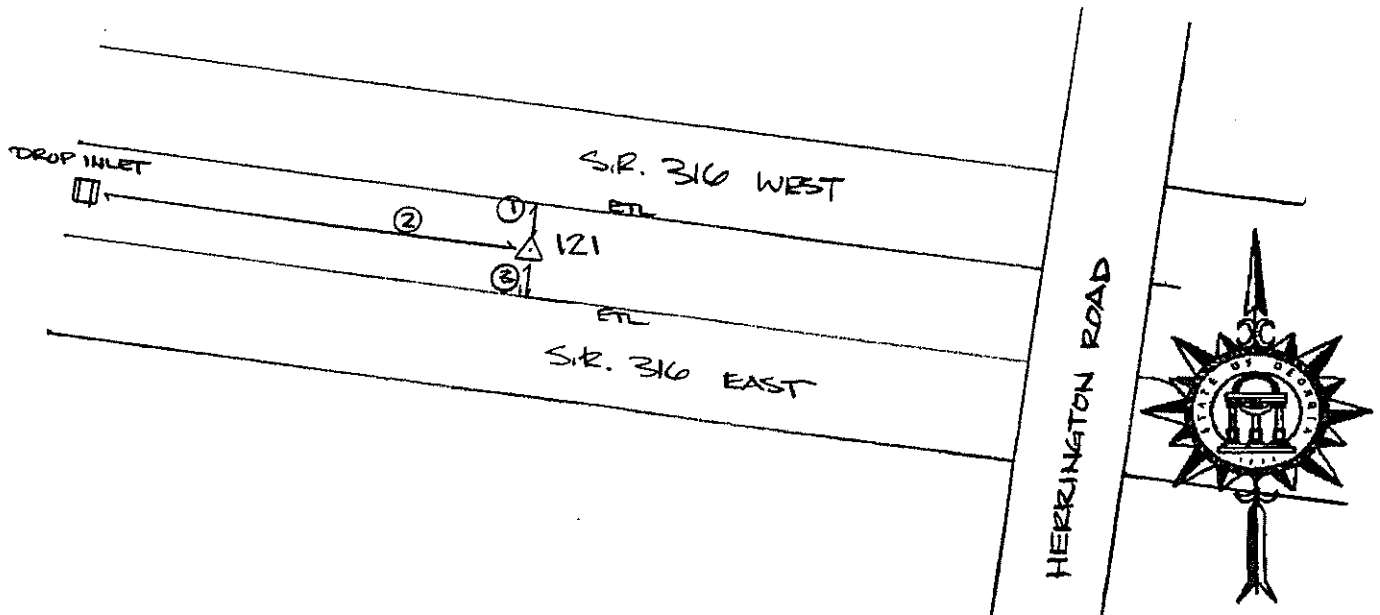
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 922.27

NORTHING (Y): 1441476.908 EASTING (X): 2322738.569

TO REACH DESCRIPTION:

Δ 121 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY (SOUTHBOUND) AND THE S.R. 316 WEST
RAMP, TRAVEL 316 WEST APPROXIMATELY 1.11 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 26.7' SOUTH OF EDGE OF TRAVEL LANE
- ② 202' EAST OF DROP INLET
- ③ 10.5' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 122

JOB NUMBER: 061192,02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

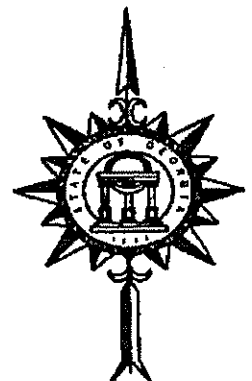
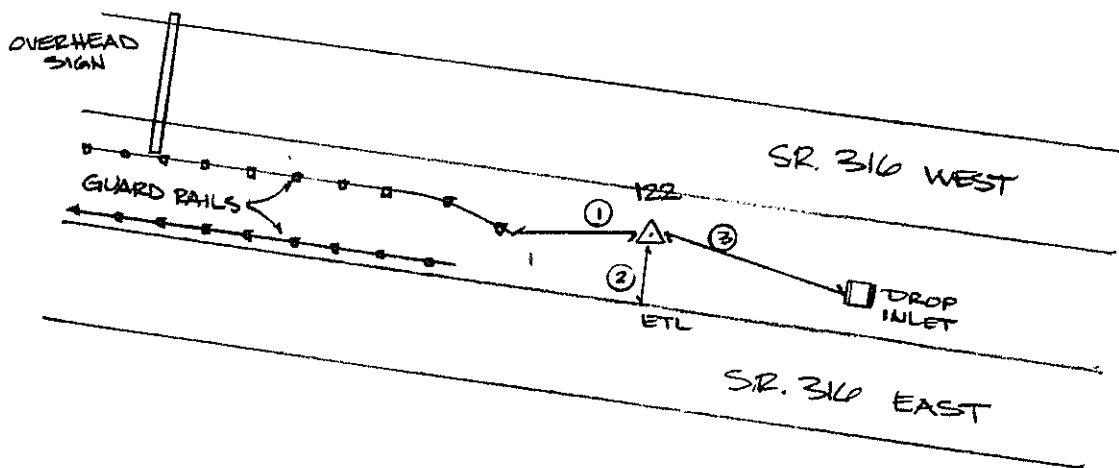
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NVD 88 ELEVATION: 898.60

NORTHING (Y): 1441673.043 EASTING (X): 2321296.132

TO REACH DESCRIPTION:

Δ 122 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE SR. 316 RAMP, TRAVEL
WEST ON 316 APPROXIMATELY 1.38 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 33.9' EAST OF END OF
GUARD RAIL
- ② 55.2' WEST OF DROP INLET
- ③ 27' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 123

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: _____ DATE: 12/30/04 UNITS OF MEASURE: FEET

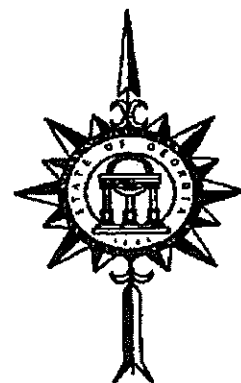
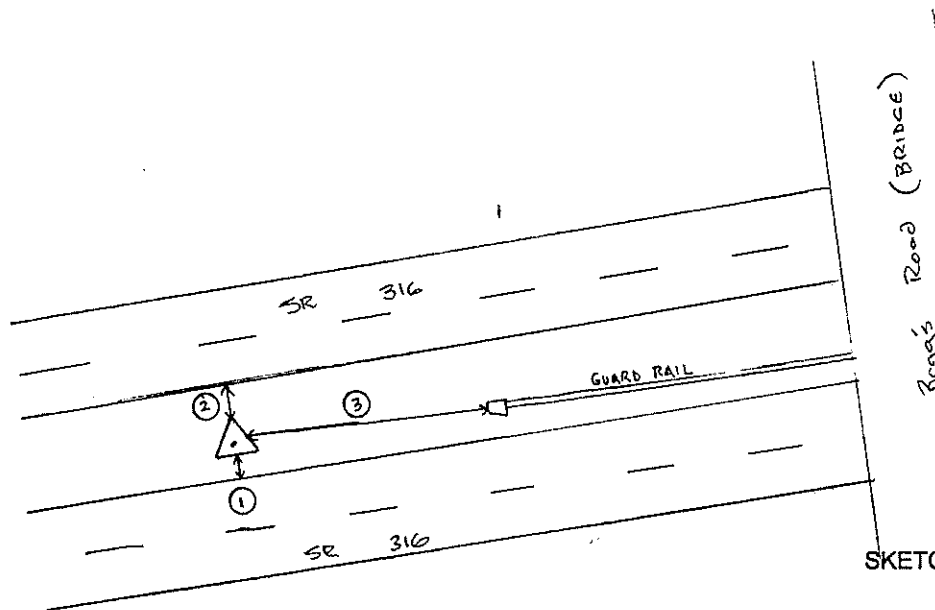
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NVD 88 ELEVATION: 930.83

NORTHING (Y): 1442063.235 EASTING (X): 2317997.661

TO REACH DESCRIPTION:

Δ 123 IS A $\frac{3}{4}$ " REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF I-85 North and SR 316 go approx. 0.37 miles. Δ 123
is located in Median of SR 316.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 10.75' North of EP on East Bound lane
of SR 316.
- ② 30.0' South of EP on West Bound
Lane of SR 316.
- ③ 127.3' West of Guard Rail in Median
of SR 316.

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 200

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

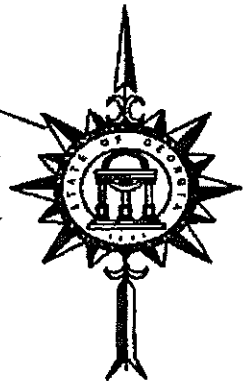
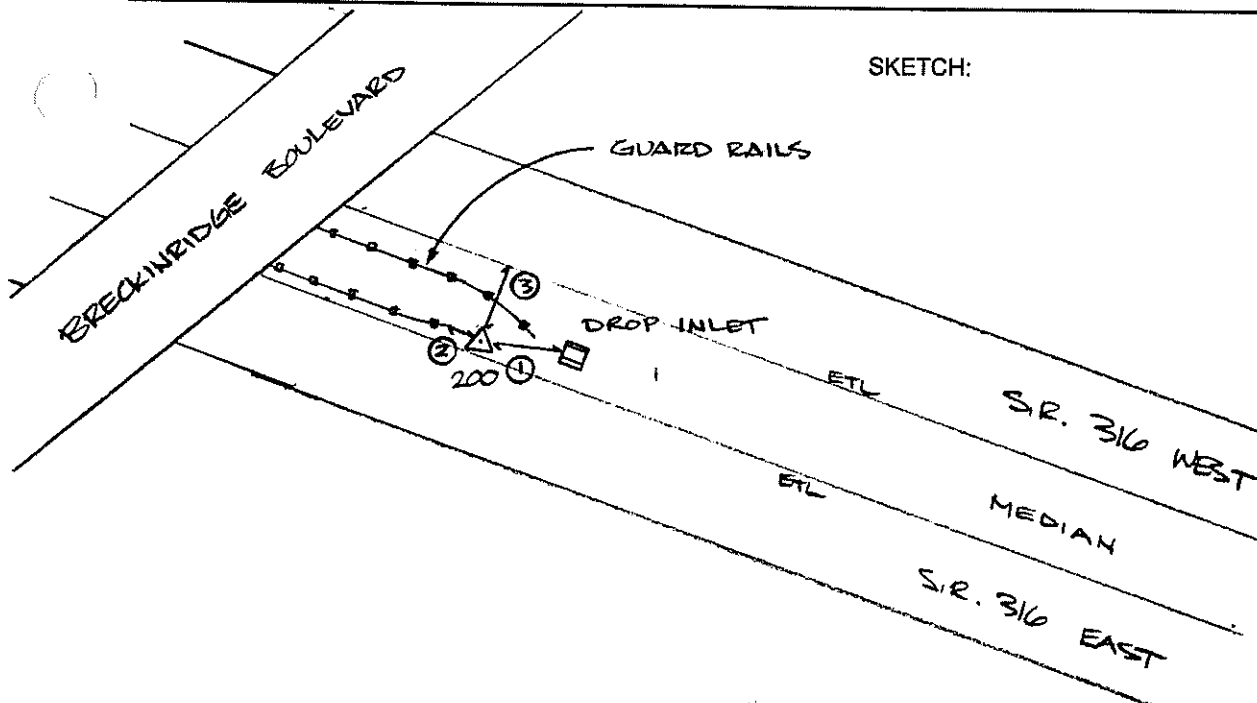
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 893.55

NORTHING (Y): 1441783.182 EASTING (X): 2320311.775

TO REACH DESCRIPTION:

Δ 200 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND S.R. 316 WEST RAMP,
TRAVEL 316 WESTBOUND APPROXIMATELY 1.57 MILES TO MEDIAN AT
LEFT (APPROX. 57' BEFORE BRECKINRIDGE BLVD. OVERPASS).

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 17.1' WEST OF DROP INLET
- ② 5.8' EAST OF END OF
GUARD RAIL
- ③ 24.1' SOUTHWEST OF EDGE
OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 201

JOB NUMBER: 06192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

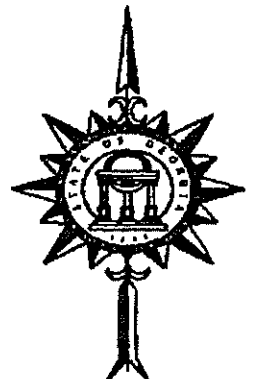
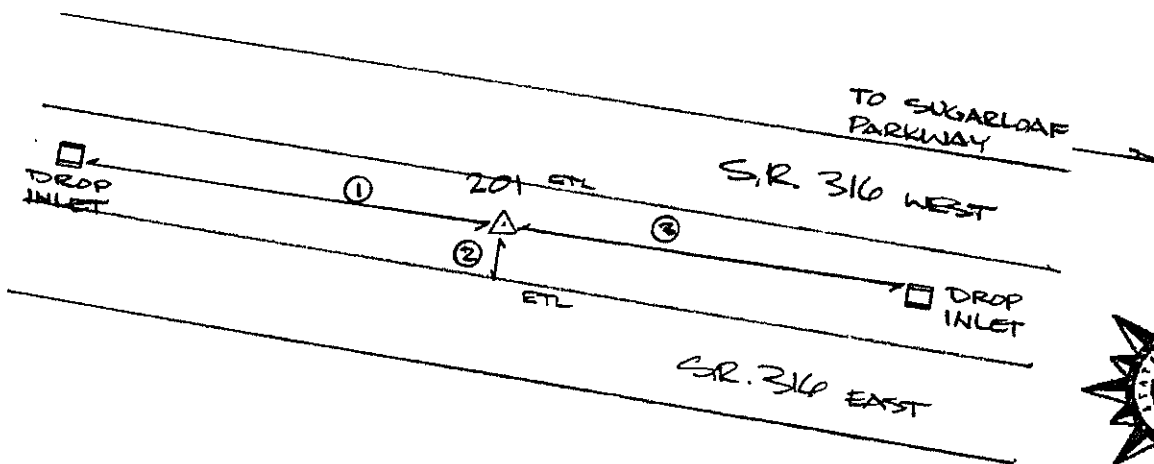
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 908.24

NORTHING (Y): 1441580.506 EASTING (X): 2321937.441

TO REACH DESCRIPTION:

Δ 201 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE SR. 316 WEST RAMP, TRAVEL
WEST ON 316 APPROXIMATELY 1.20 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 191' EAST OF DROP INLET
- ② 13.5' NORTH OF EDGE OF TRAVEL LANE
- ③ 209.5' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 202

JOB NUMBER: 061192.02 COUNTY: GINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

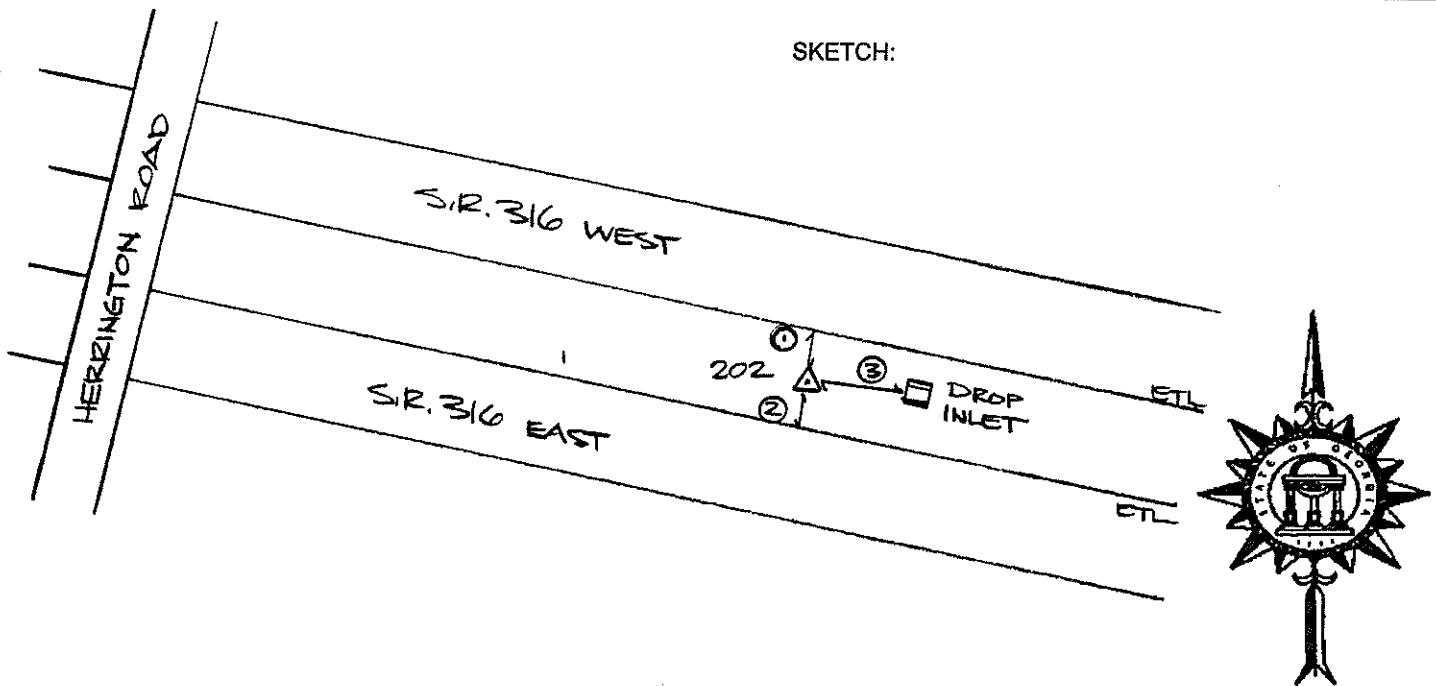
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 923.20

NORTHING (Y): 1441396.583 EASTING (X): 2323419.256

TO REACH DESCRIPTION:

Δ 202 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE S.R. 316 WEST RAMP,
TRAVEL WEST APPROX. 0.98 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 21.4' SOUTH OF EDGE OF TRAVEL LANE
- ② 15.4' NORTH OF EDGE OF TRAVEL LANE
- ③ 11.5' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 203

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NVD 88 ELEVATION: 908.36

NORTHING (Y): 1441247.718 EASTING (X): 2324718.796

TO REACH DESCRIPTION:

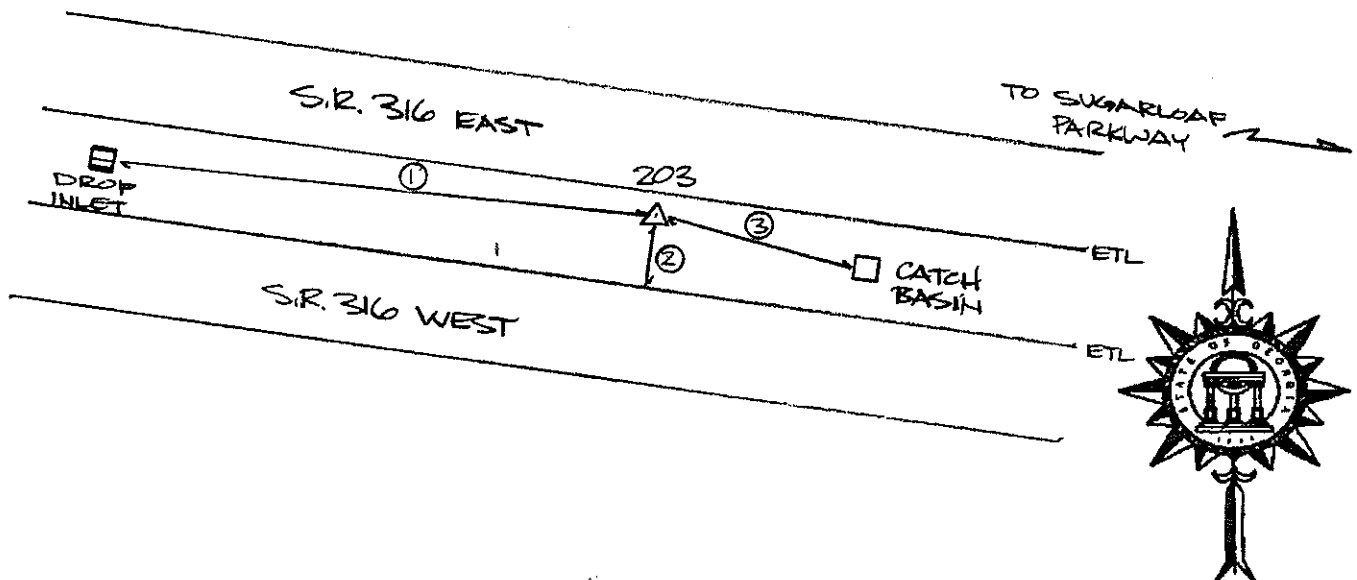
Δ 203 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE.

FROM THE INTERSECTION OF SUGARLOAF PARKWAY AND THE S.R. 316 WEST

RAMP, TRAVEL 316 WESTBOUND APPROXIMATELY 0.80 MILES TO

MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 184.7' EAST OF DROP
INLET
- ② 28.2' NORTH OF EDGE OF
TRAVEL LANE
- ③ 47.9' WEST OF CATCH BASIN

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 204

JOB NUMBER: 061192.02 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

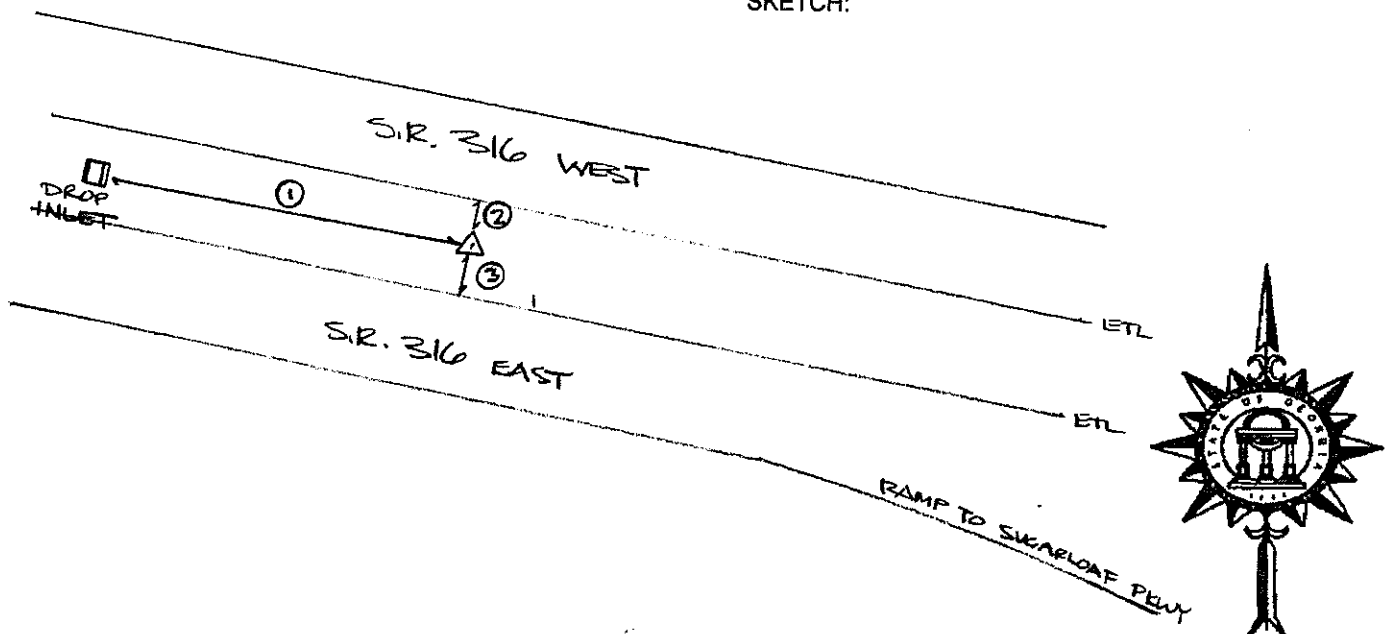
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 962.21

NORTHING (Y): 1441002.361 EASTING (X): 2326687.300

TO REACH DESCRIPTION:

Δ 204 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE S.R. 316 WEST RAMP,
TRAVEL WEST APPROXIMATELY 0.35 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 180.4' EAST OF DROP INLET
- ② 9.4' SOUTH OF EDGE OF TRAVEL LANE
- ③ 29' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 205

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

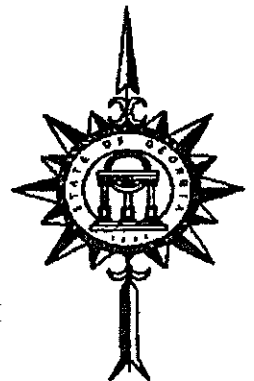
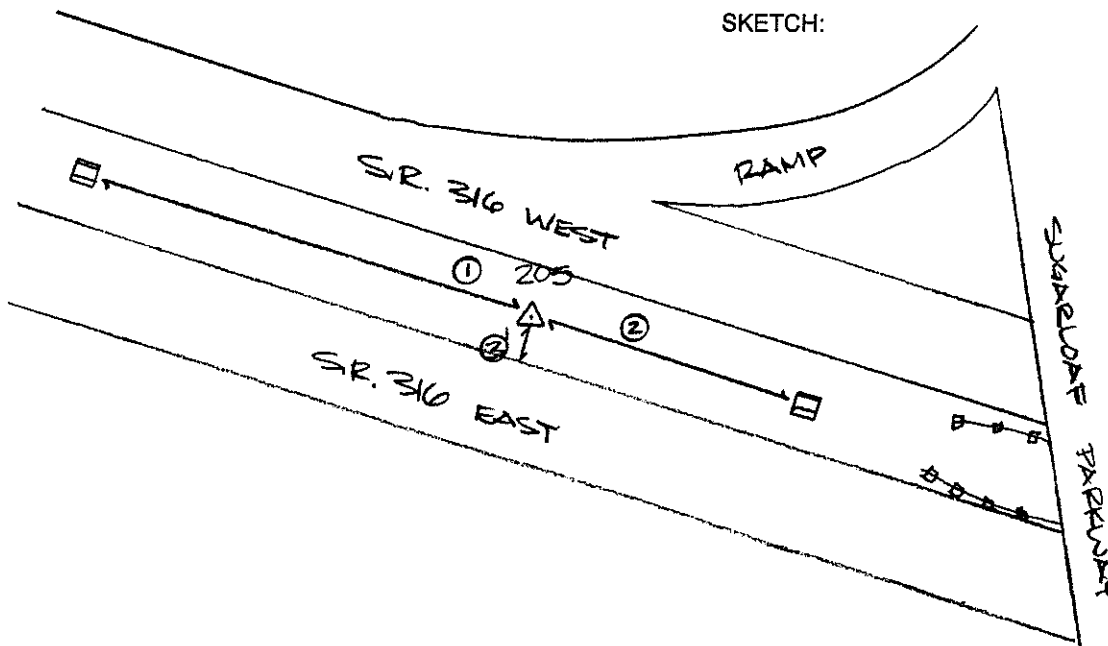
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 986.93

NORTHING (Y): 1440812.715 EASTING (X): 2328198.801

TO REACH DESCRIPTION:

Δ 205 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE 316 WEST RAMP, TRAVEL
WESTBOUND ON 316 APPROXIMATELY 1.61 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 202' SOUTHEAST OF DROP
INLET
- ② 195' NORTHWEST OF
DROP INLET
- ③ 28.2' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 206

JOB NUMBER: 06119202 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

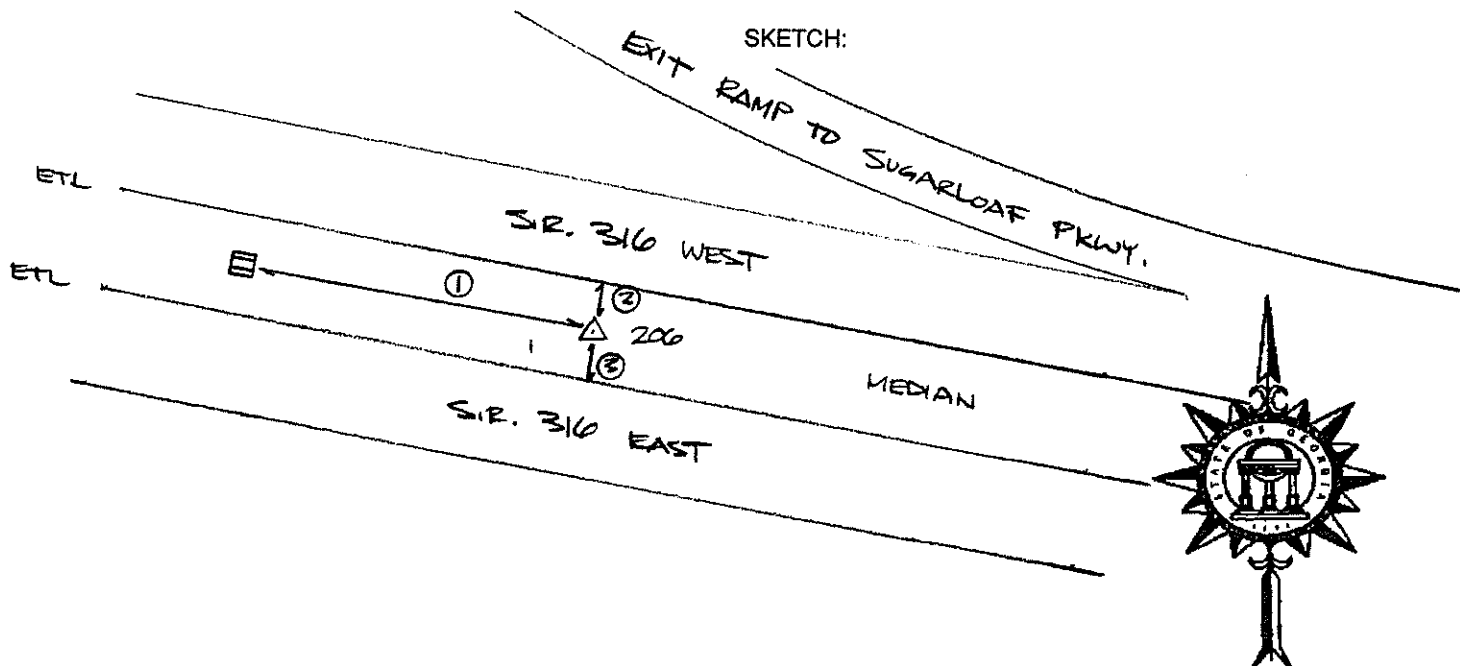
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 989.35

NORTHING (Y): 1440626.097 EASTING (X): 2329721.167

TO REACH DESCRIPTION:

Δ 206 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE.

FROM THE INTERSECTION OF RIVERSIDE PARKWAY AND THE 316 WEST RAMP,
TRAVEL APPROXIMATELY 1.28 MILES WEST TO MEDIAN AT LEFT (JUST
PAST THE SUGARLOAF PKWY EXIT RAMP).



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 137.8' EAST OF DROP
INLET
- ② 7.2' SOUTH OF EDGE OF
TRAVEL LANE
- ③ 30' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 207

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 947.70

NORTHING (Y): 1440385.357 EASTING (X): 2331577.925

TO REACH DESCRIPTION:

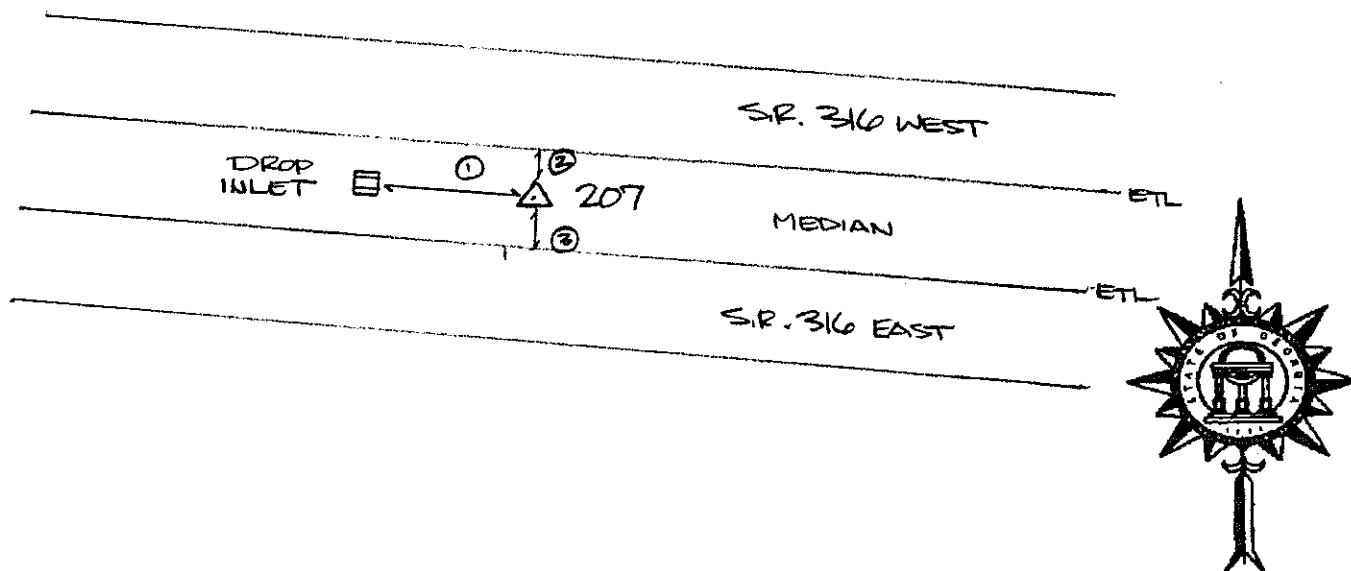
Δ 207 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE.

FROM THE INTERSECTION OF SUGARLOAF PARKWAY AND THE SR. 316 EAST

RAMP, TRAVEL EASTBOUND ON 316 APPROXIMATELY 0.51 MILES TO

MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

① 8.8' EAST OF DROP INLET

② 17' SOUTH OF EDGE OF TRAVEL LANE

③ 19.3' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 208

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

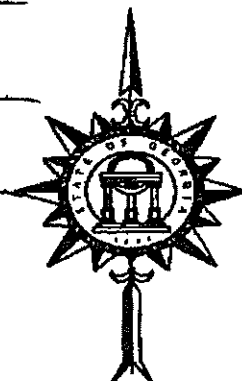
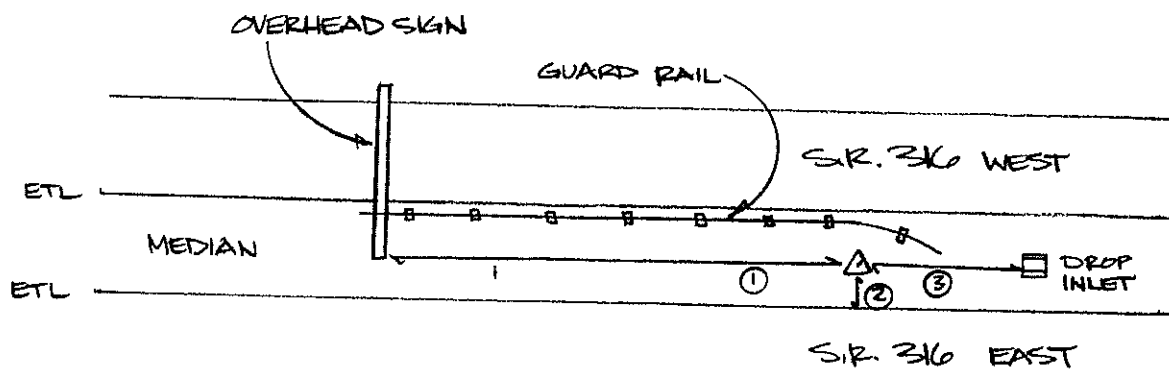
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 926.54

NORTHING (Y): 1440196.031 EASTING (X): 2333123.600

TO REACH DESCRIPTION:

Δ 208 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE 316 EAST RAMP, TRAVEL
316 EASTBOUND APPROXIMATELY 0.80 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 161.6' EAST OF OVERHEAD
SIGN
- ② 23.4' NORTH OF EDGE OF
TRAVEL LANE
- ③ 27.9' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 209

JOB NUMBER: 0619202 COUNTY: WINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

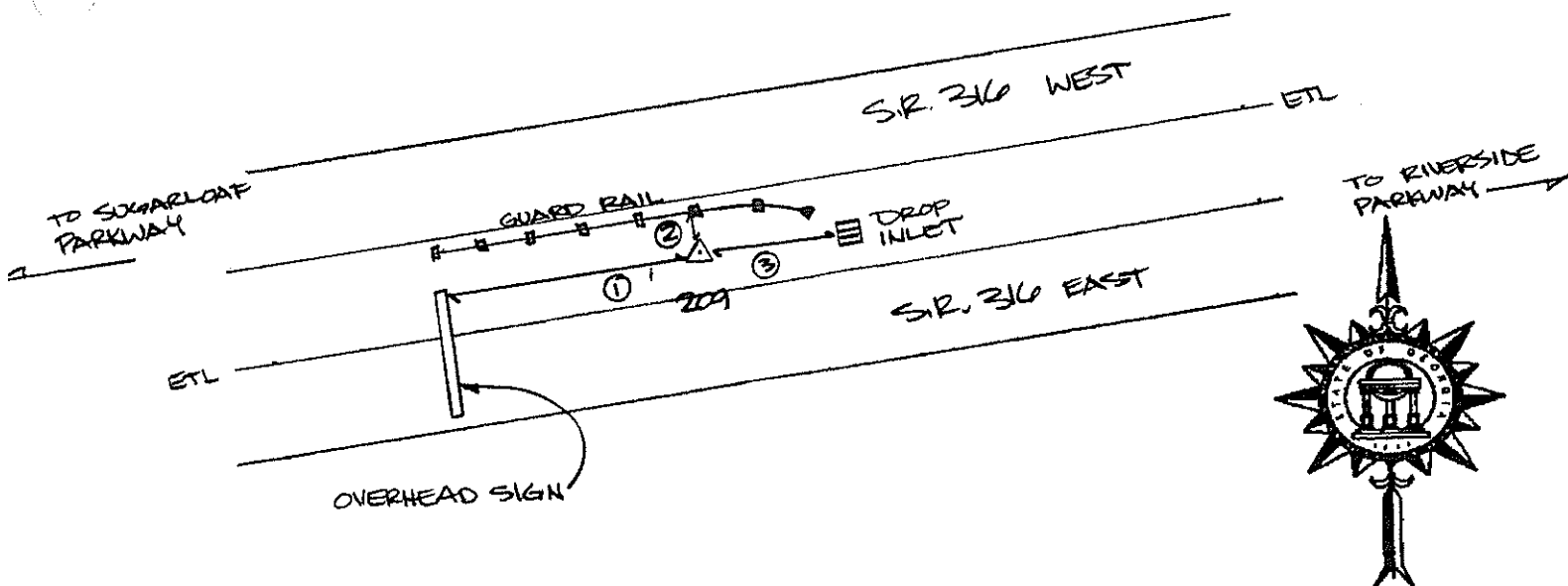
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 904.96

NORTHING (Y): 1440071.344 EASTING (X): 2334727.395

TO REACH DESCRIPTION:

Δ 209 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE SR. 316 EAST RAMP,
TRAVEL 316 EASTBOUND APPROXIMATELY 1.10 MILES TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 151.3' EAST OF SIGN
- ② 8.9' SOUTH OF GUARD RAIL
- ③ 33' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 210

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

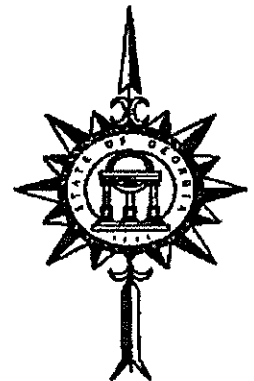
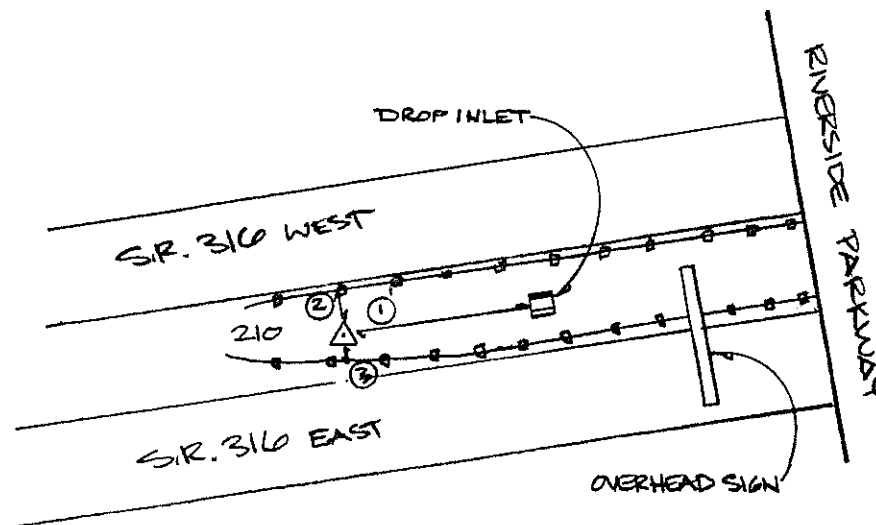
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 923.88

NORTHING (Y): 1440340.923 EASTING (X): 2336259.514

TO REACH DESCRIPTION:

Δ 210 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF SUGARLOAF PARKWAY AND THE S.R. 316 EAST RAMP,
TRAVEL 316 EASTBOUND APPROXIMATELY 1.39 MILES TO MEDIAN
AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 57.1' WEST OF DROP
INLET
- ② 4.9' SOUTH OF GUARD RAIL
- ③ 9.7' NORTH OF GUARD RAIL

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ211

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

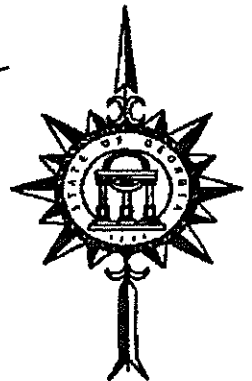
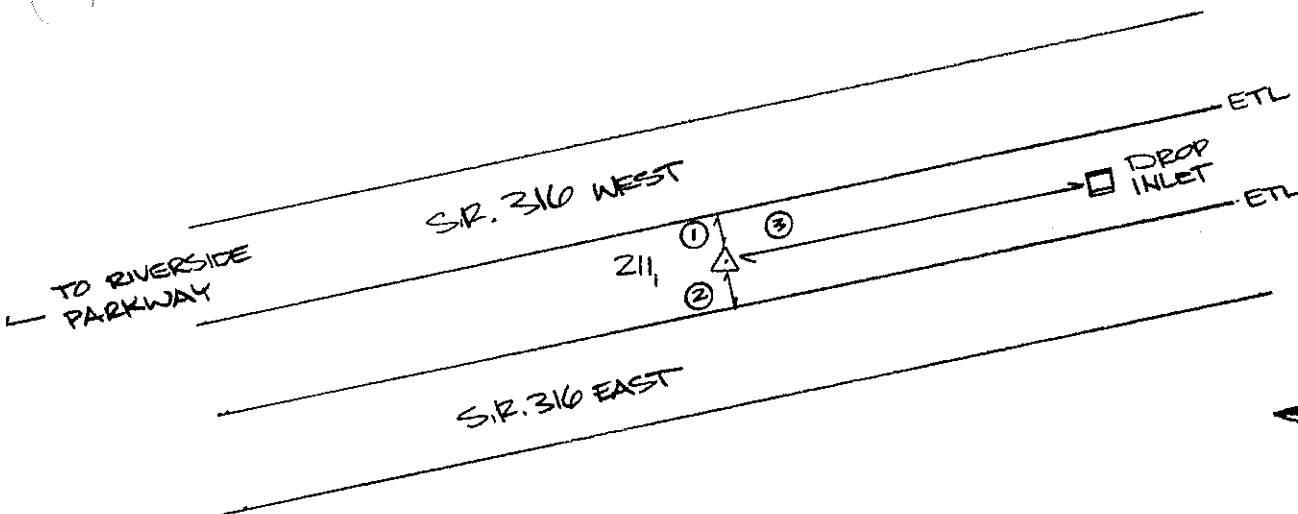
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 948.47

NORTHING (Y): 1440993.557 EASTING (X): 2338091.193

TO REACH DESCRIPTION:

Δ211 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE S.R. 316 EAST RAMP,
TRAVEL EASTBOUND 316 FOR APPROXIMATELY 0.32 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 9.3' SOUTH OF EDGE OF TRAVEL LANE
- ② 28.7' NORTH OF EDGE OF TRAVEL LANE
- ③ 113' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 212

JOB NUMBER: 06119202 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1008.71

NORTHING (Y): 1441664.474 EASTING (X): 2339924.897

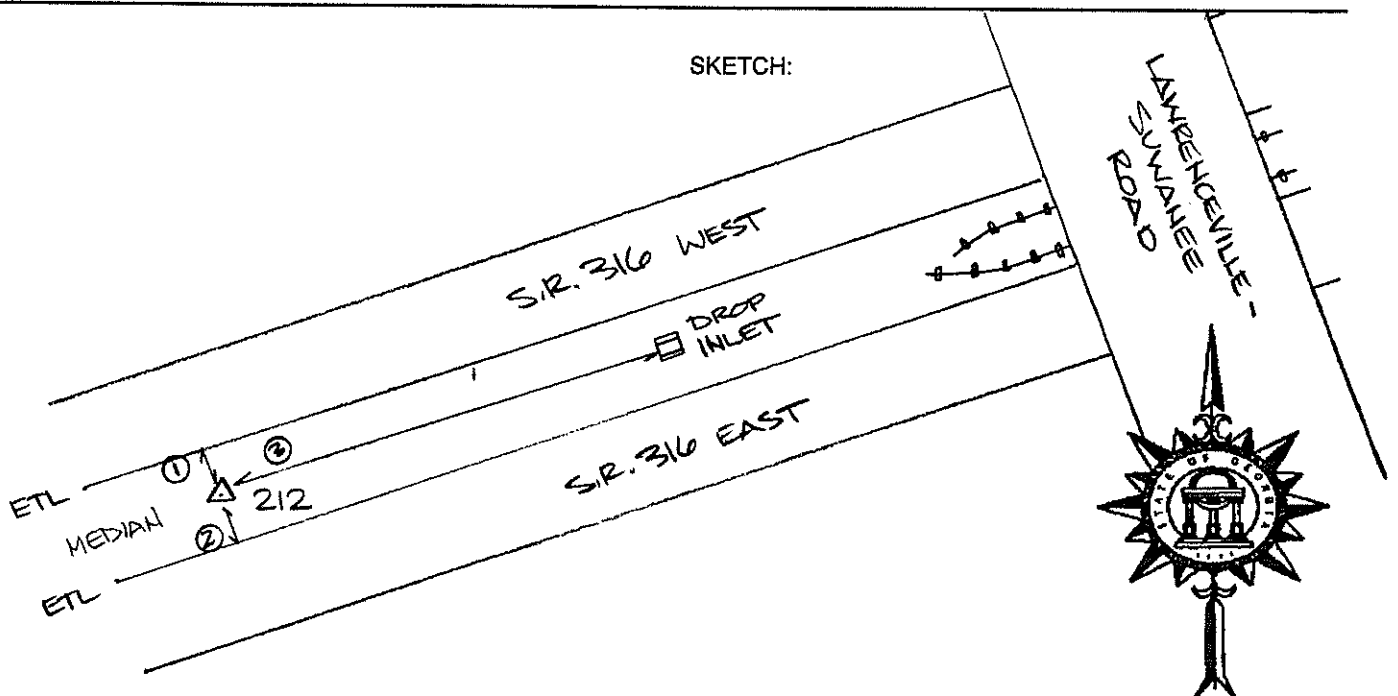
TO REACH DESCRIPTION:

Δ 212 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE

FROM THE INTERSECTION OF RIVERSIDE PARKWAY AND THE S.R. 316 EAST

RAMP, TRAVEL 316 EASTBOUND APPROXIMATELY 0.69 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 28.8' SOUTH OF EDGE OF TRAVEL LANE
- ② 8.3' NORTH OF EDGE OF TRAVEL LANE
- ③ 160.6' SOUTHWEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 213

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

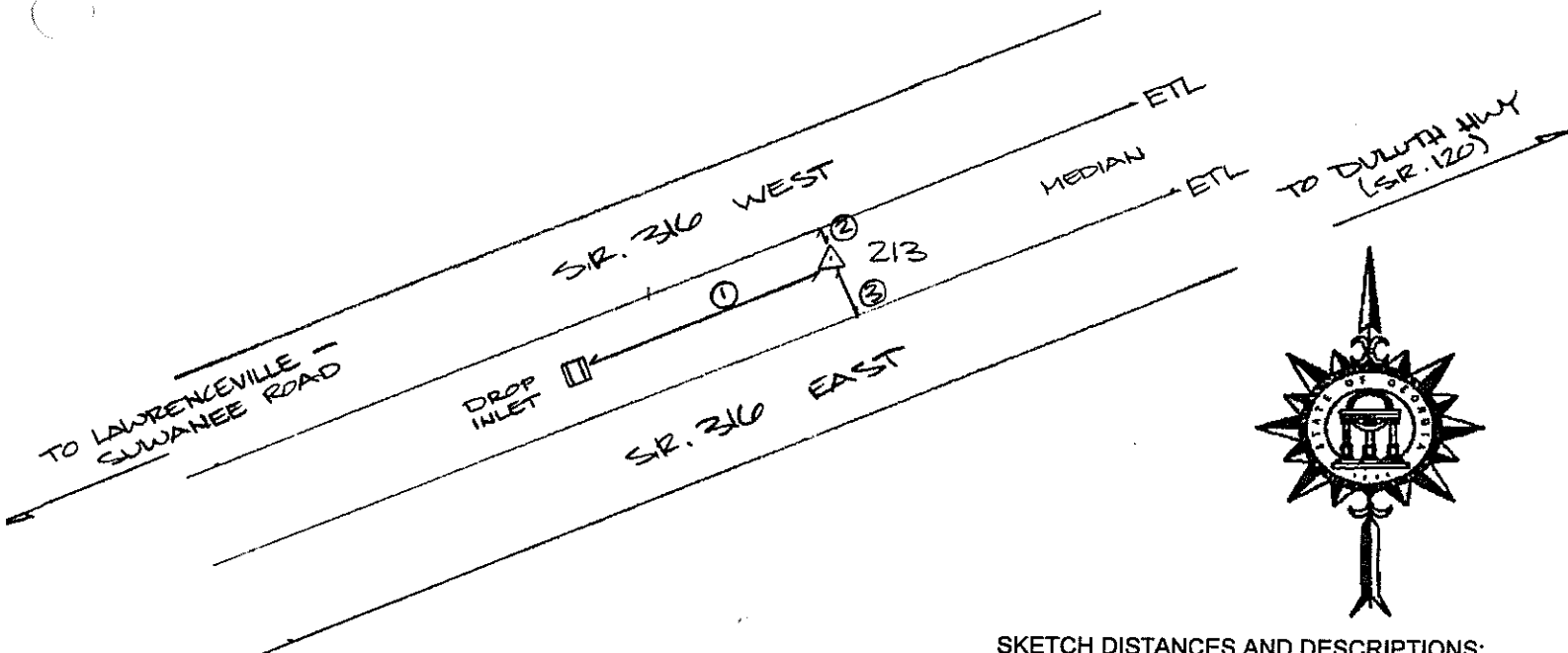
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1013.52

NORTHING (Y): 1442459.724 EASTING (X): 2341123.993

TO REACH DESCRIPTION:

Δ 213 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE S.R. 316 EAST RAMP,
TRAVEL EAST APPROXIMATELY 0.96 MILES TO MEDIAN

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 79.7' NORTHEAST OF
DROP INLET
- ② 8.7' SOUTHEAST OF EDGE
OF TRAVEL LANE
- ③ 29.3' NORTHWEST OF EDGE
OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 214

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

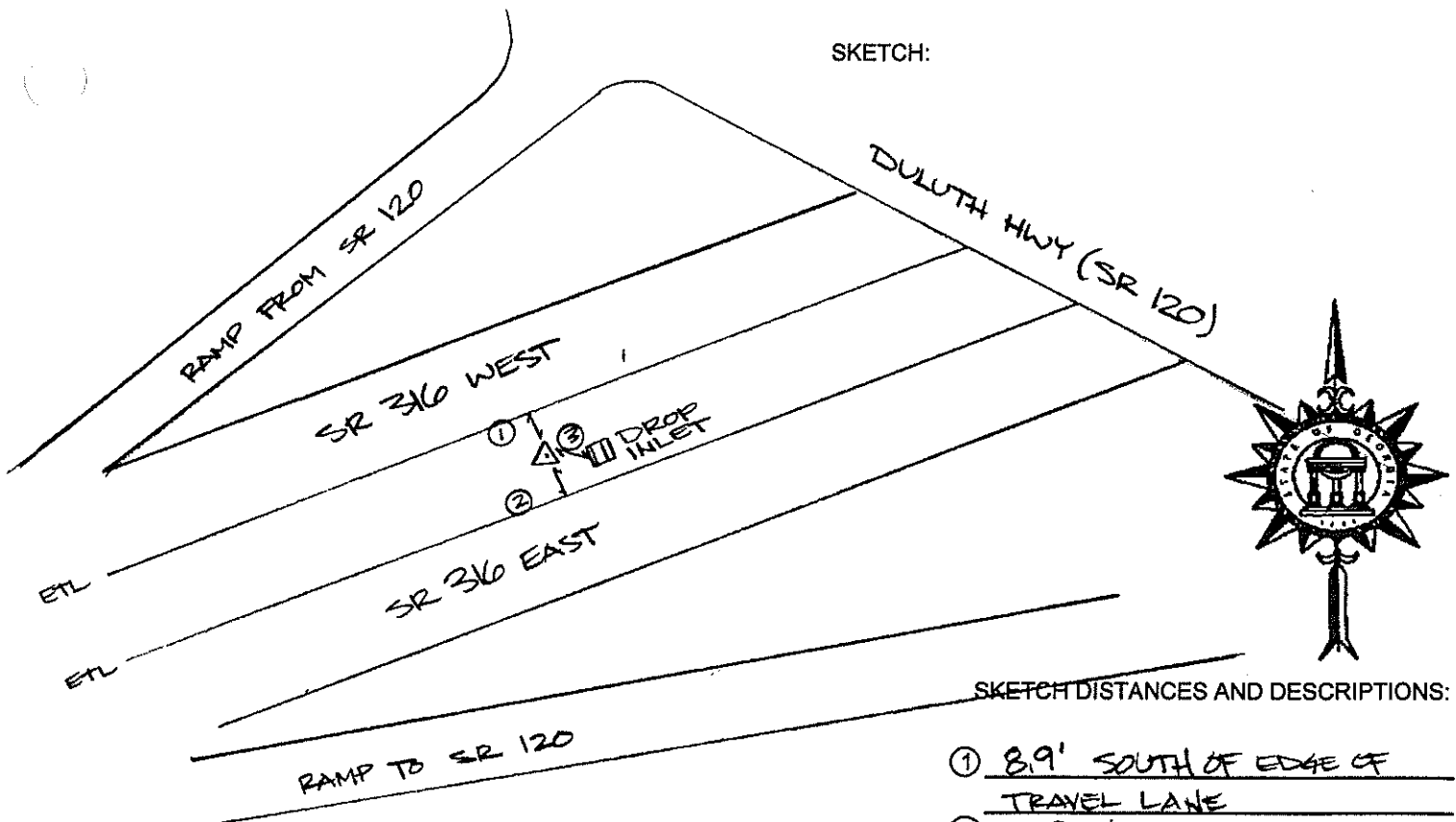
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1010.50

NORTHING (Y): 1443026.613 EASTING (X): 2341896.514

TO REACH DESCRIPTION:

Δ 214 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF RIVERSIDE PARKWAY AND THE SR. 316 EAST RAMP,
TRAVEL 316 EASTBOUND APPROXIMATELY 1.14 MILES TO MEDIAN (APPROX.
170 FEET BEFORE SR 120 OVERPASS).

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 8.9' SOUTH OF EDGE OF
TRAVEL LANE
- ② 29.9' NORTH OF EDGE OF
TRAVEL LANE
- ③ 12' NORTHWEST OF
DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 215

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1020.31

NORTHING (Y): 1444079.509 EASTING (X): 2343334.568

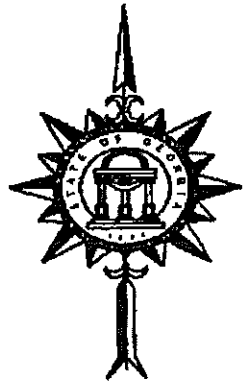
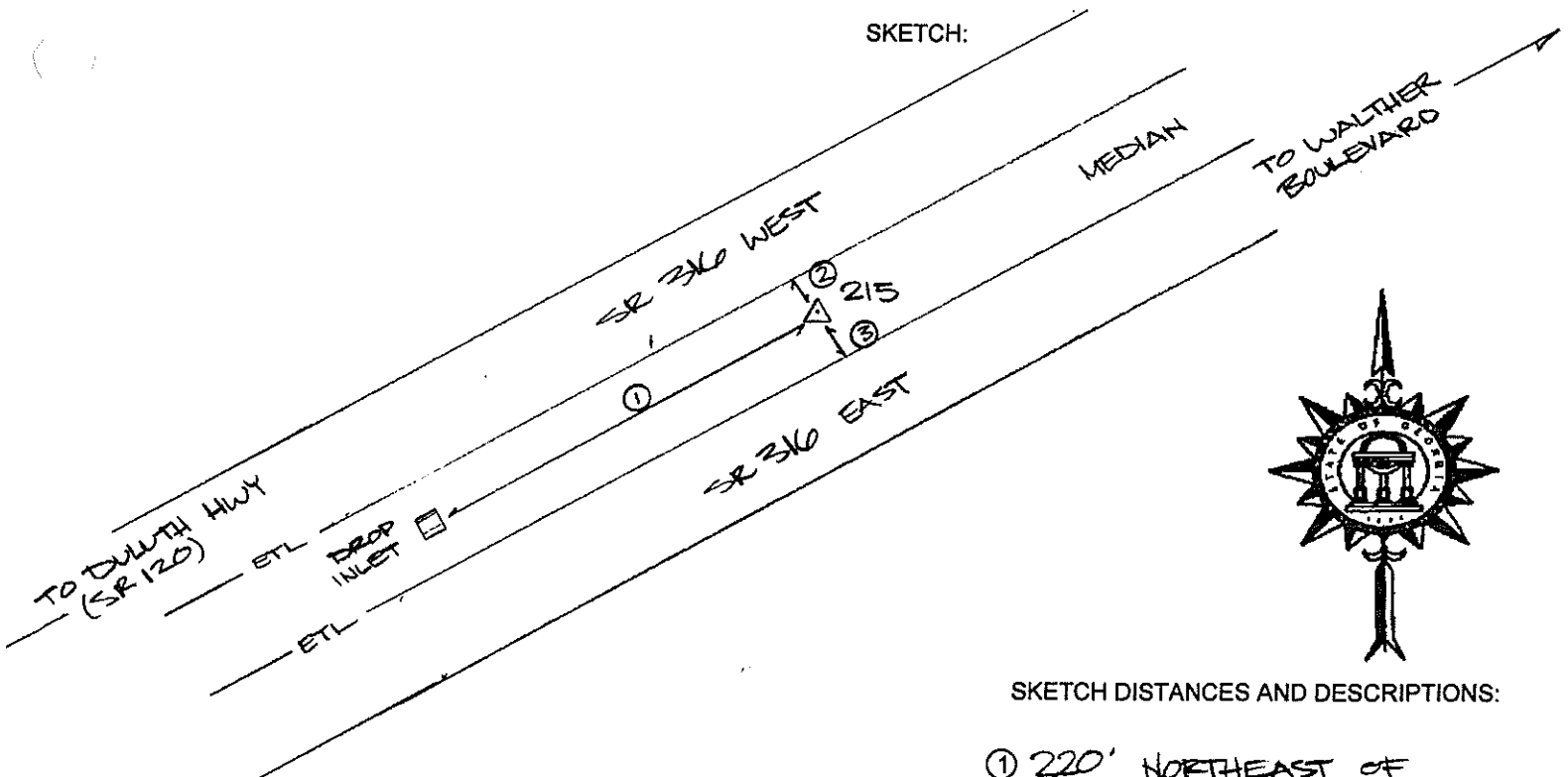
TO REACH DESCRIPTION:

Δ 215 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE

INTERSECTION OF DULUTH HWY (SR 120) AND THE 316 EAST RAMP,

TRAVEL EASTBOUND APPROXIMATELY 0.20 MILES TO MEDIAN AT LEFT

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 220' NORTHEAST OF
DROP INLET
- ② 11.7' SOUTHEAST OF EDGE
OF TRAVEL LANE
- ③ 28' NORTHWEST OF EDGE
OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 216

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1037.38

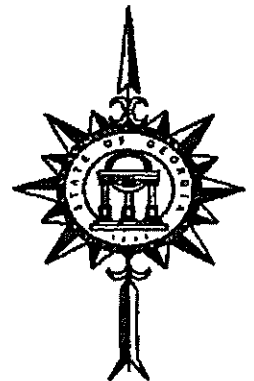
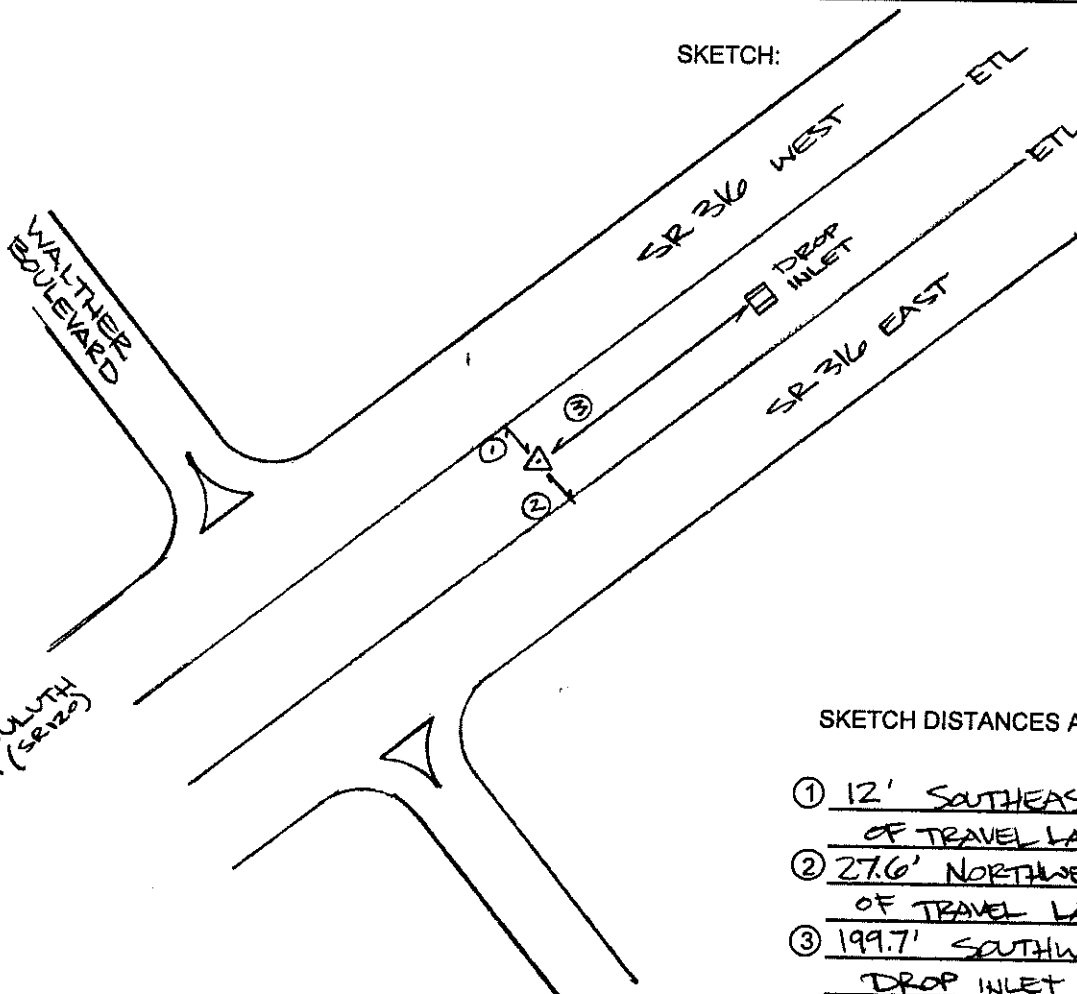
NORTHING (Y): 1445201.098 EASTING (X): 2344842.163

TO REACH DESCRIPTION:

Δ 216 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE

FROM THE INTERSECTION OF WALTHER BOULEVARD AND SR 316, TRAVEL
EAST ON 316 FOR APPROXIMATELY 285 FEET TO MEDIAN AT LEFT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 12' SOUTHEAST OF EDGE
OF TRAVEL LANE
- ② 27.6' NORTHWEST OF EDGE
OF TRAVEL LANE
- ③ 199.7' SOUTHWEST OF
DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 217

JOB NUMBER: 06192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

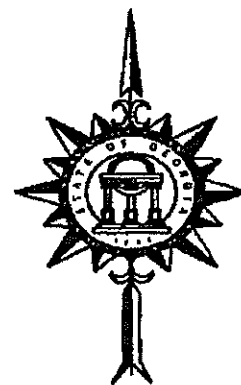
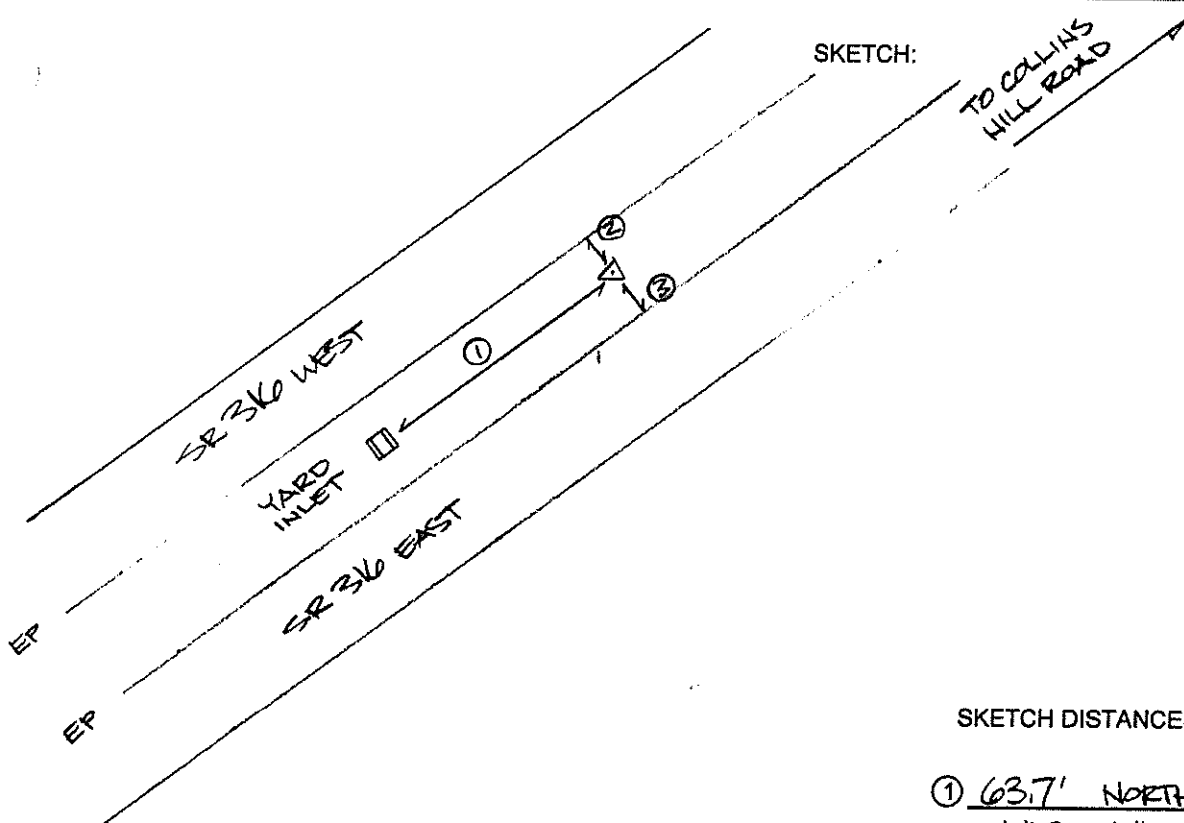
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1026.91

NORTHING (Y): 1445614.357 EASTING (X): 2345355.778

TO REACH DESCRIPTION:

Δ 217 IS A 3/4" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF WALTHER BOULEVARD AND SR 316, TRAVEL EAST ON
316 APPROXIMATELY 0.18 MILES TO MEDIAN AT LEFT.



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 63.7' NORTHEAST OF
YARD INLET
- ② 24.7' SOUTHEAST OF EDGE
OF PAVEMENT
- ③ 15.2' NORTHWEST OF EDGE
OF PAVEMENT

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 218

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

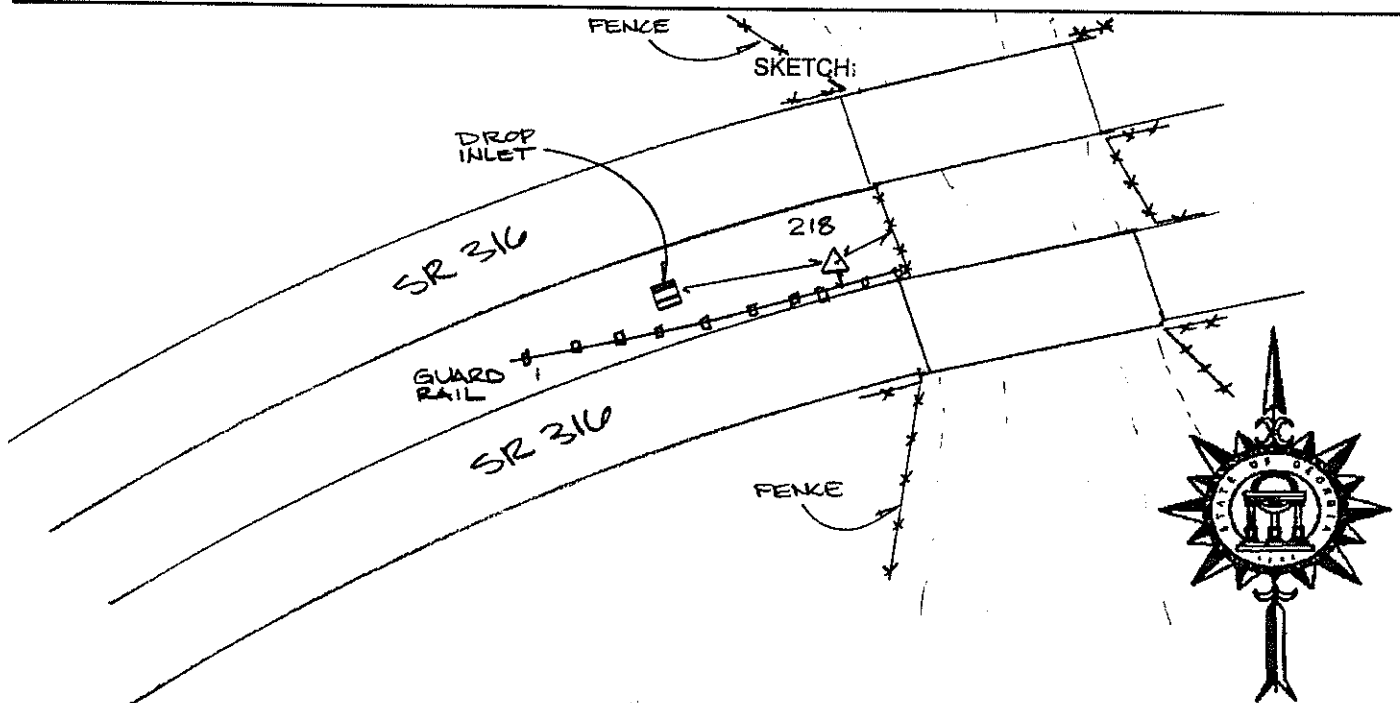
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1029.45

NORTHING (Y): 1446304.987 EASTING (X): 2340282.620

TO REACH DESCRIPTION:

Δ 218 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE, FROM THE
INTERSECTION OF WALTHER BOULEVARD AND SR 316, TRAVEL EAST
ON 316 APPROXIMATELY 0.40 MILES TO MEDIAN.



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 32.2' EAST OF DROP INLET
- ② 10.9' NORTH OF GUARD RAIL
- ③ 16.8' WEST OF FENCE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 219

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

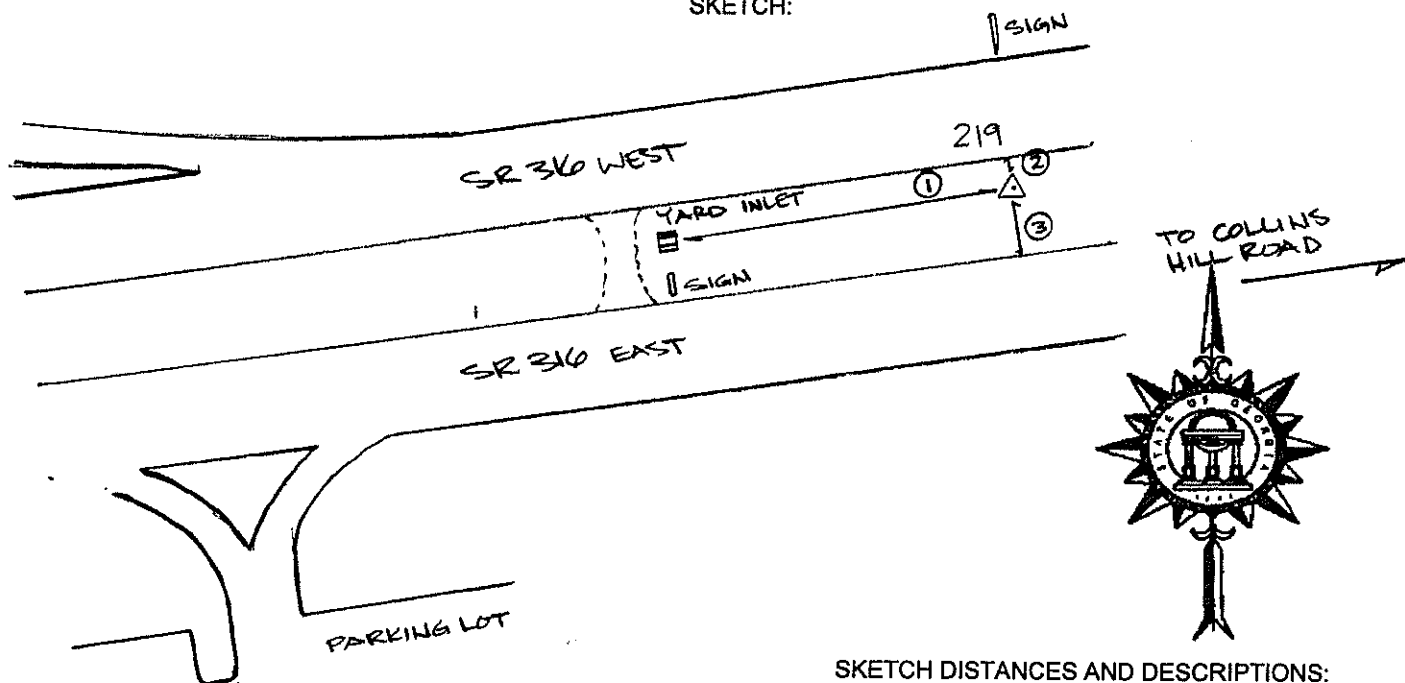
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1063.62

NORTHING (Y): 1446710.111 EASTING (X): 2347735.238

TO REACH DESCRIPTION:

Δ 219 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF WALTHER BOULEVARD AND SR 316, TRAVEL EAST ON
316 APPROXIMATELY 0.68 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 201.9' EAST OF YARD INLET
- ② 14.9' SOUTH OF EDGE OF CONCRETE
- ③ 44.4' NORTH OF EDGE OF CONCRETE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 220

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1051.45

NORTHING (Y): 1447094.618 EASTING (X): 2349410.510

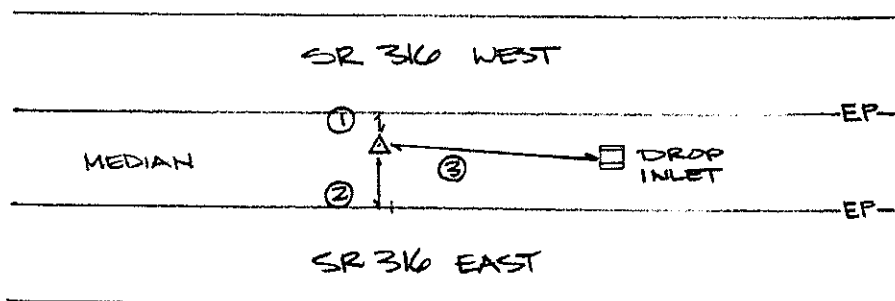
TO REACH DESCRIPTION:

Δ 220 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE.

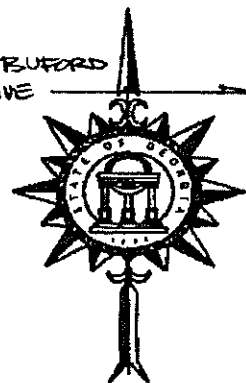
FROM THE INTERSECTION OF COLLINS HILL ROAD AND SR 316, TRAVEL
EAST ON 316 APPROXIMATELY 0.21 MILES TO MEDIAN

SKETCH:

TO COLLINS
HILL ROAD



TO BUFORD
DRIVE



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 16.5' SOUTH OF EDGE OF PAVEMENT
- ② 39.8' NORTH OF EDGE OF PAVEMENT
- ③ 82.7' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 221

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

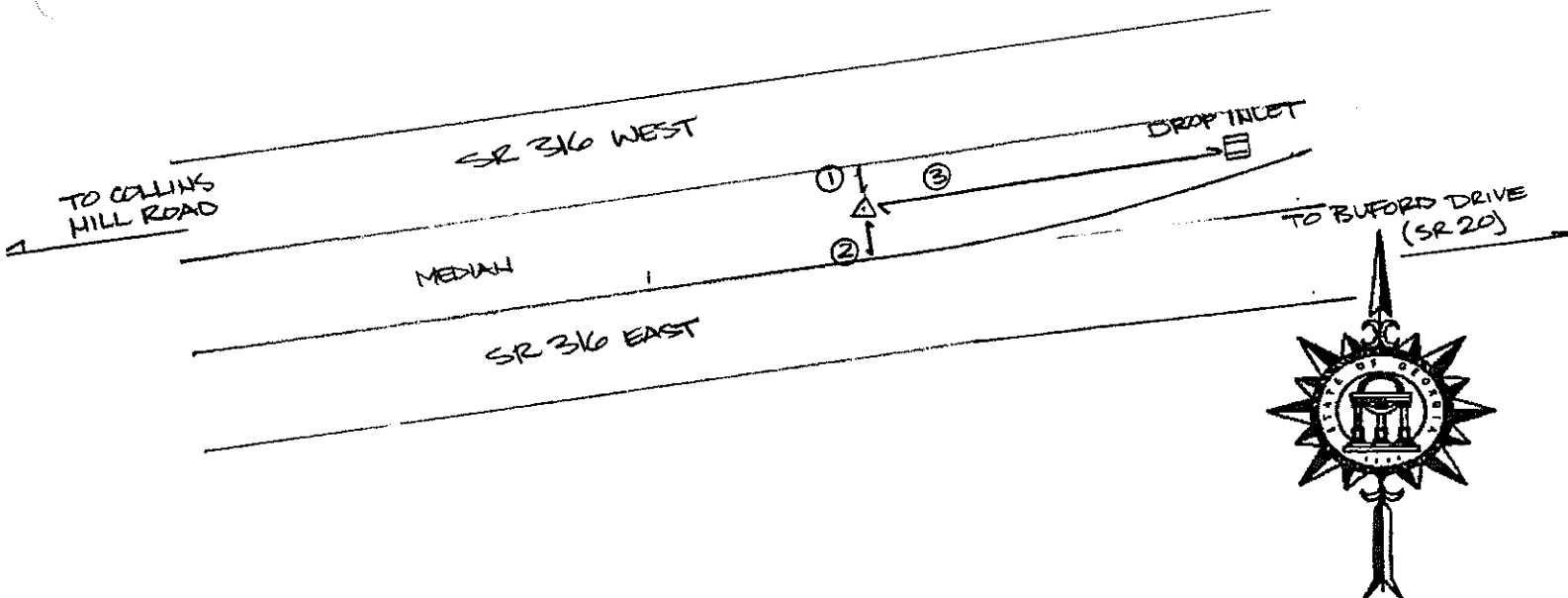
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1092.92

NORTHING (Y): 1447456.235 EASTING (X): 2350971.883

TO REACH DESCRIPTION:

Δ 221 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF COLLINS HILL ROAD AND SR 316, TRAVEL EAST ON
316 APPROXIMATELY 0.51 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 21.4' SOUTH OF EDGE OF
CONCRETE
- ② 22.1' NORTH OF EDGE OF
TRAVEL LANE
- ③ 100.4' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 222

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

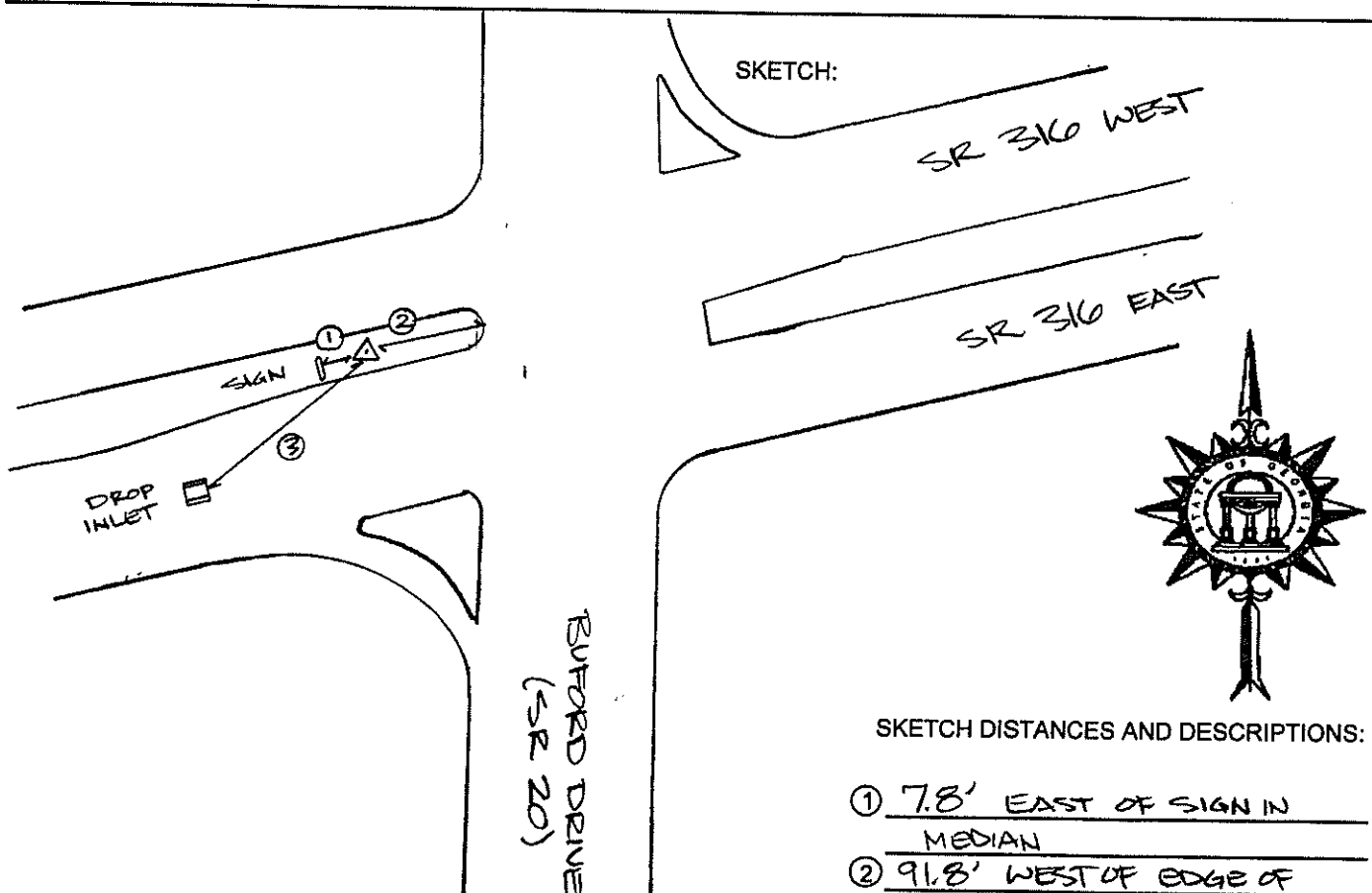
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1100.95

NORTHING (Y): 1447571.590 EASTING (X): 2351405.571

TO REACH DESCRIPTION:

Δ 222 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. AT THE
INTERSECTION OF BUFORD DRIVE (SR 20) AND SR 316, Δ 222 IS
IN THE THE CENTER MEDIAN APPROXIMATELY 125 FEET WEST OF THE
INTERSECTION.



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 7.8' EAST OF SIGN IN
MEDIAN
- ② 91.8' WEST OF EDGE OF
PAVEMENT
- ③ 76.2' NORTHEAST OF
DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 223

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1074.14

NORTHING (Y): 1447908.217 EASTING (X): 2352878.292

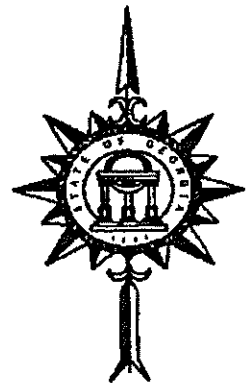
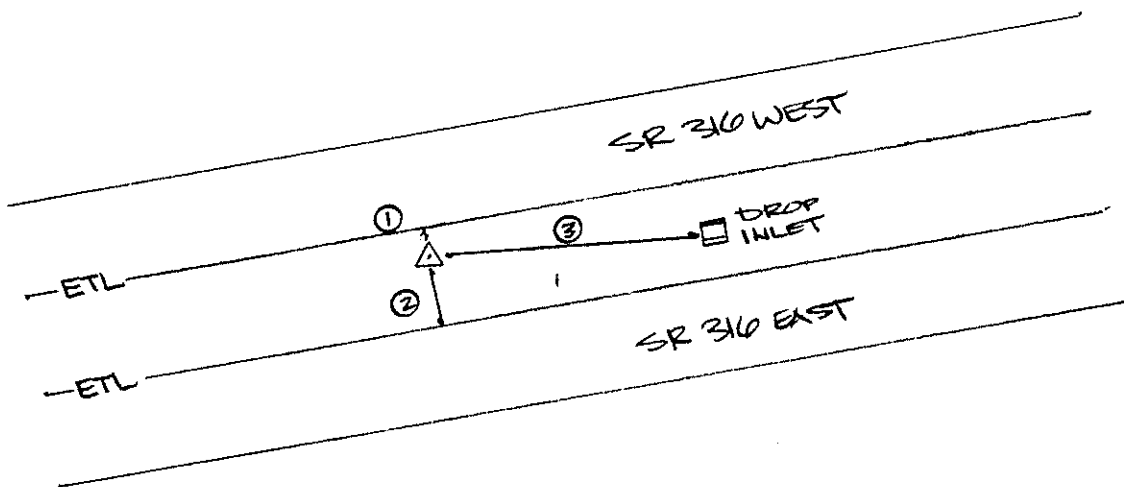
TO REACH DESCRIPTION:

Δ 223 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE

FROM THE INTERSECTION OF BUFORD DRIVE (SR 20) AND SR 316,

TRAVEL EAST ON 316 APPROXIMATELY 0.26 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 12.5' SOUTH OF EDGE OF TRAVEL LANE
- ② 52.8' NORTH OF EDGE OF TRAVEL LANE
- ③ 92.7' WEST OF DROP INLET

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 224

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

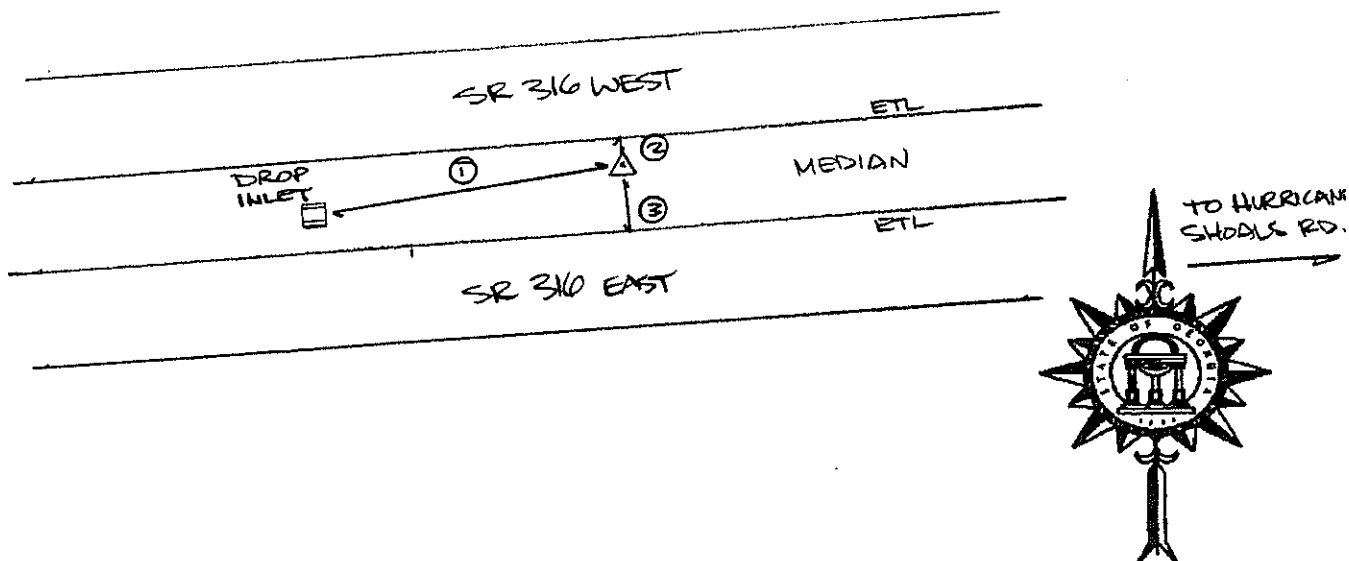
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1037.67

NORTHING (Y): 1448290.845 EASTING (X): 2354503.271

TO REACH DESCRIPTION:

Δ 224 IS A 1/2" REBAR SET 2" BELOW GROUND SURFACE. FROM THE
INTERSECTION OF HURRICANE SHOALS ROAD AND SR 316, TRAVEL
WEST ON 316 APPROXIMATELY 0.16 MILES (880') TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 80.5' NORTHEAST OF
DROP INLET
- ② 8.5' SOUTH OF EDGE OF
TRAVEL LANE
- ③ 55.7' NORTH OF EDGE OF
TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 225

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: _____ DATE: 12/30/04 UNITS OF MEASURE: FEET

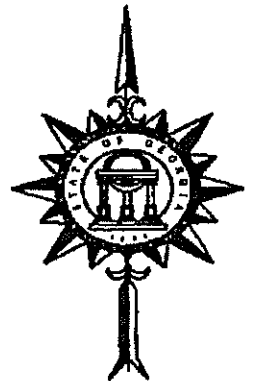
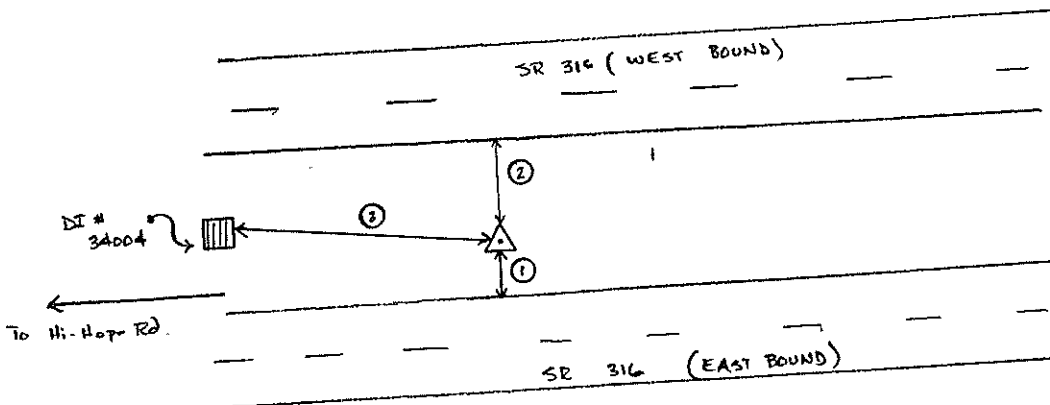
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAD 88 ELEVATION: 1033.03

NORTHING (Y): 1448850.888 EASTING (X): 2318666.817

TO REACH DESCRIPTION:

Δ 225 is a #4 RBR set in the Median of SR 316 Approx
1700' East of Intersection of SR 316 and Hurricane Shoals Rd.
(AKA Hi-Hope Rd.)

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 17.9' North of EP of East Bound SR
316
- ② 38.1' South of EP of West Bound SR
316
- ③ 57.6' East of DT in Median of SR 316
(# 34004)

VISIBLE FROM GROUND TO: Δ 848 VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 2226

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: _____ DATE: 12/30/04 UNITS OF MEASURE: FEET

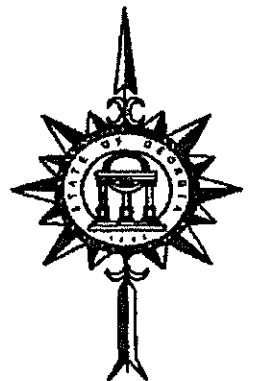
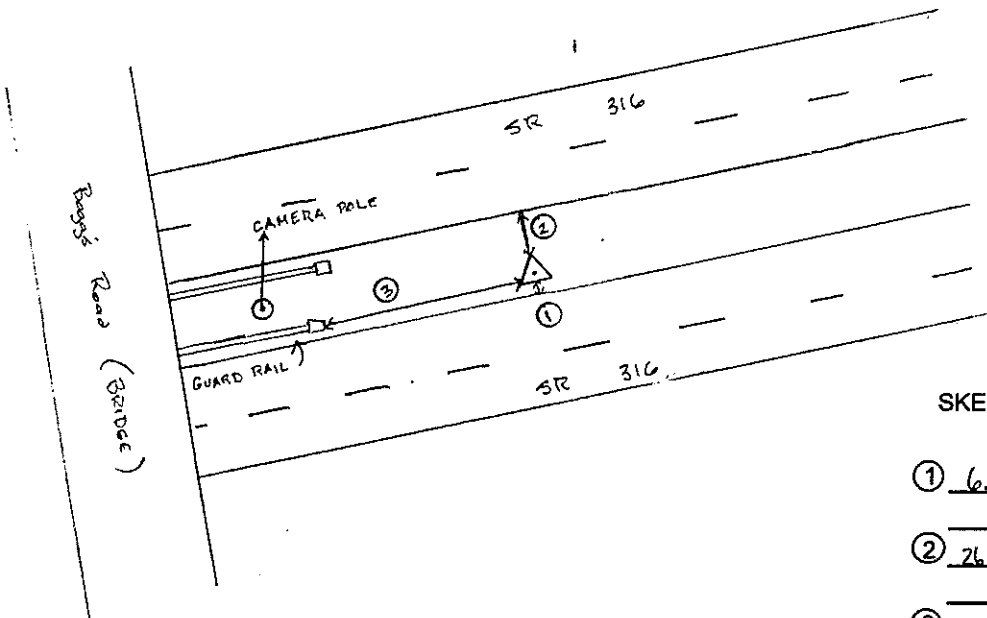
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 920.33

NORTHING (Y): 1441984.818 EASTING (X): 2318666.817

TO REACH DESCRIPTION:

Δ 2226 IS A CONCRETE MONUMENT. Located approximately 0.51 miles
from intersection of I-85 N and SR 316. Δ 2226 is located
in the median of SR 316 and is 4.5' South of a SURVEY
MARKER POST.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 6.4' North of EP of East Bound
Lane of SR 316.
- ② 26.3' South of EP of West Bound
Lane of SR 316.
- ③ East of Guard Rail in
Median of SR 316.

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 2227

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

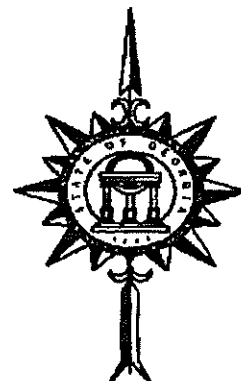
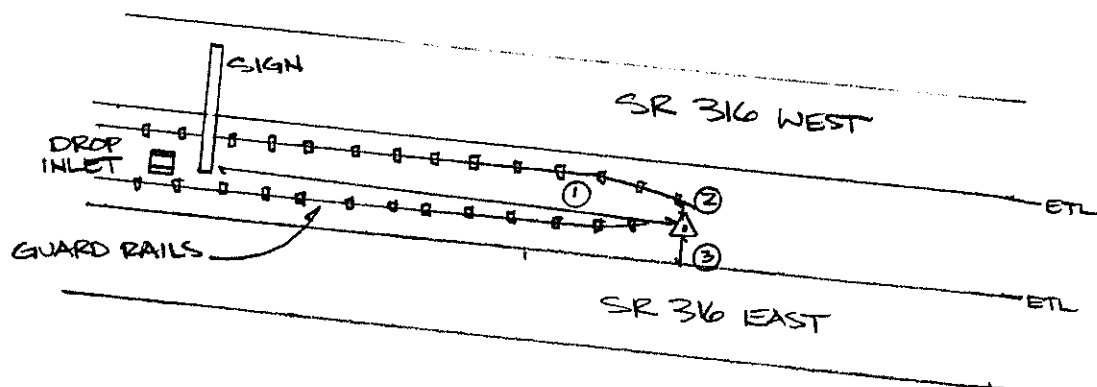
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 901.33

NORTHING (Y): 1441860.301 EASTING (X): 2319685.364

TO REACH DESCRIPTION:

Δ 2227 IS A CONCRETE MONUMENT. FROM THE INTERSECTION OF
SUGARLOAF PARKWAY AND THE SR 316 WEST RAMP, TRAVEL
316 WESTBOUND APPROXIMATELY 1.69 MILES TO MEDIAN.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 91.8' EAST OF OVERHEAD SIGN
- ② 1.0' SOUTH OF GUARD RAIL
- ③ 18.5' NORTH OF EDGE OF TRAVEL LANE

VISIBLE FROM GROUND TO: _____ VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
HORIZONTAL CONTROL DELTA

STATION NAME: Δ 848

JOB NUMBER: 061192.02 COUNTY: GWINETT STATE PLANE ZONE: GA WEST

DESCRIBED BY: J. Jones DATE: 4-28-05 UNITS OF MEASURE: FEET

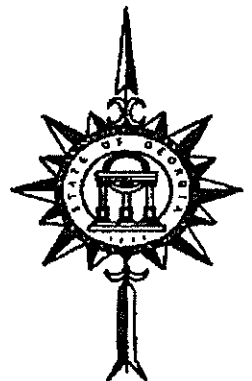
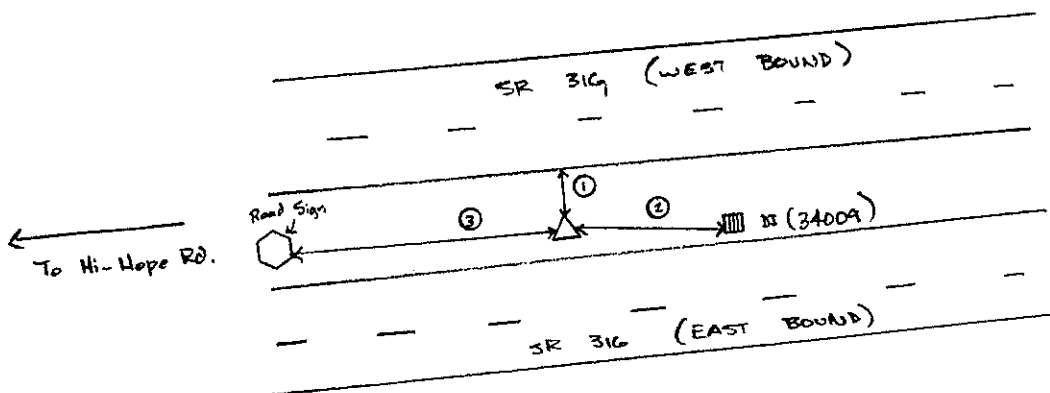
HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88 ELEVATION: 1032.18

NORTHING (Y): 1448781.442 EASTING (X): 2536026.618

TO REACH DESCRIPTION:

Δ 848 is a Brass Disk in Concrete located in the median of
SR 316 Approximately 1300' East of the Intersection of SR 316
and Hi-Hope Rd. (Also known as Hurricane Shoals Rd. 4.5' Due North
of Survey Marker Post.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 8.0' South of EP of West Bound
lanes of SR 316
- ② 50.5' NW of DI in Median of
SR 316 (# 34009)
- ③ 152.4' East of Rd. Sign for Crossing
of SR 316 + Hi-Hope Rd.

VISIBLE FROM GROUND TO: Δ 225 VISIBLE FROM GROUND TO: _____

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 1

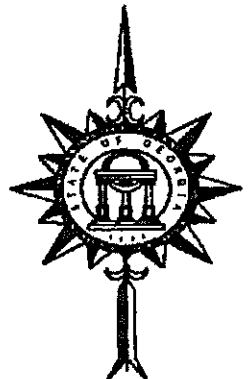
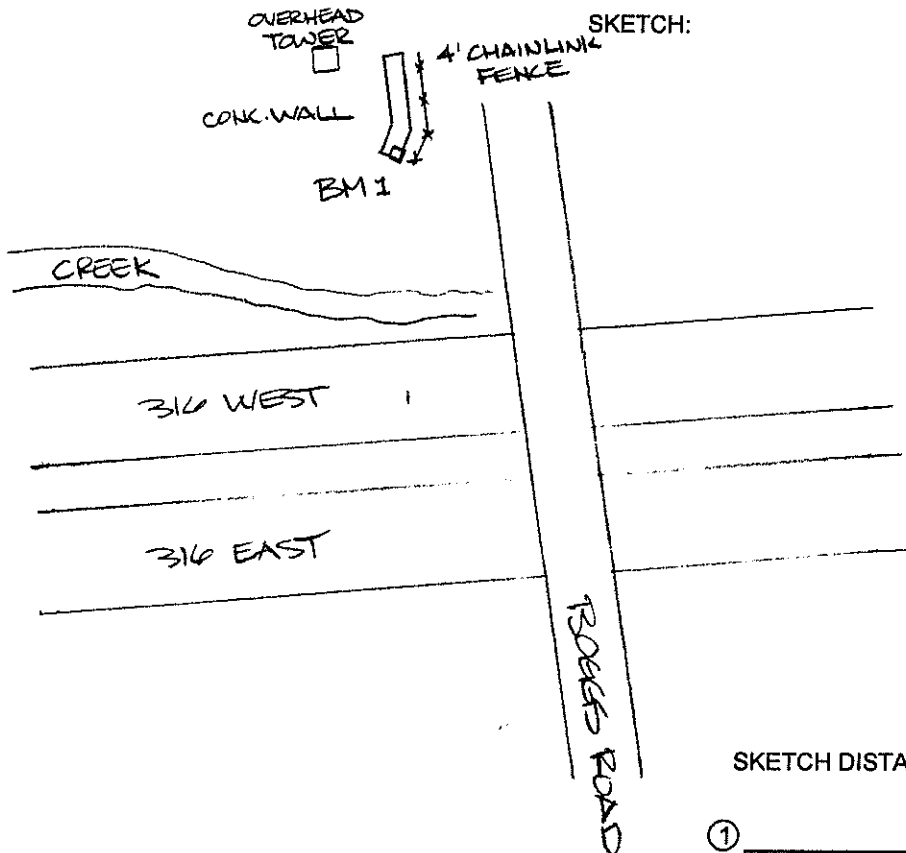
JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 918.82

TO REACH DESCRIPTION:

BM-1 IS A TEMPORARY BENCHMARK. CHISELED SQUARE ON SOUTHEAST
CORNER OF CONCRETE WALL. BM-1 IS LOCATED JUST OFF 316
(ON THE NORTH SIDE) WEST OF THE BOGGS ROAD BRIDGE.



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location

VERTICAL BENCH MARK

STATION NAME: BM 2

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

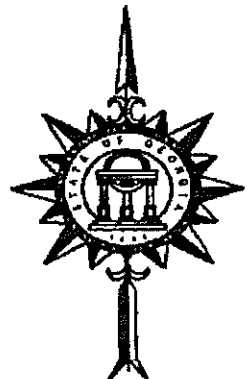
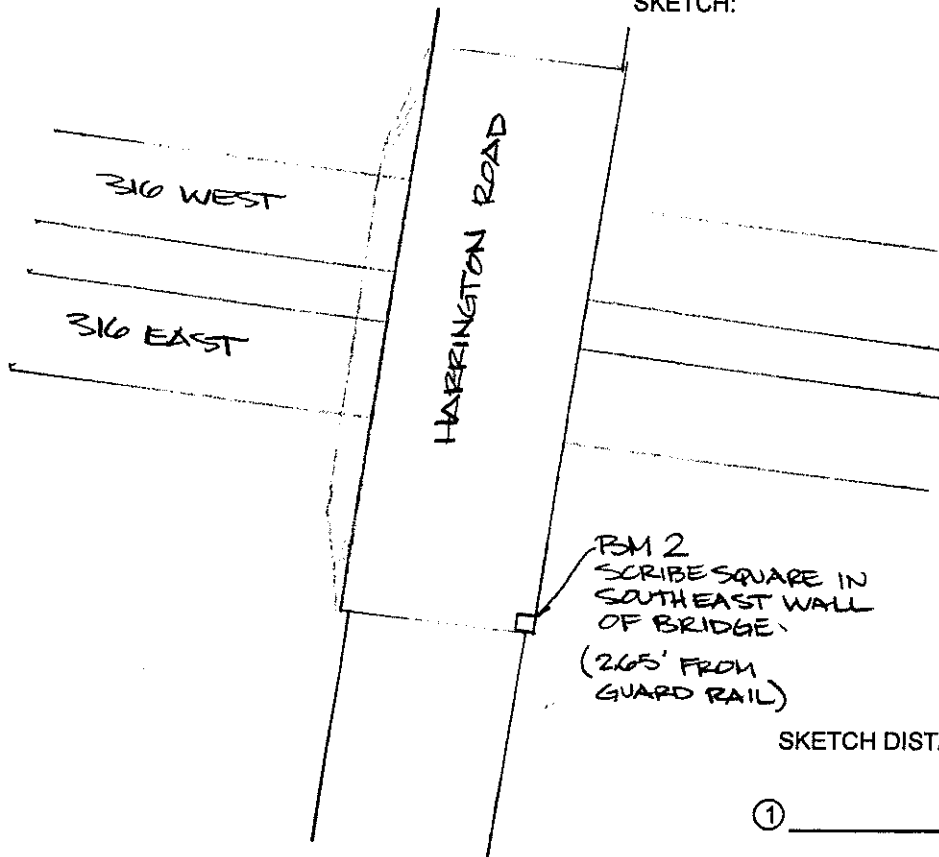
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 933.06

TO REACH DESCRIPTION:

BM-2 IS A TEMPORARY BENCHMARK. SCRIBE SQUARE IN SOUTHEAST
WALL OF BRIDGE. FROM THE INTERSECTION OF SUGARLOAF PARKWAY AND
316 WEST RAMP, TRAVEL WEST APPROXIMATELY 1 MILE TO HARRINGTON ROAD
BRIDGE. BM-2 IS ON SE WALL OF BRIDGE.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location

VERTICAL BENCH MARK

STATION NAME: BM 3

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 923.98

TO REACH DESCRIPTION:

BM-3 IS A TEMPORARY BENCHMARK. FROM THE EXIT RAMP OF
316 TO SUGARLOAF PARKWAY, TRAVEL NORTH ON SUGARLOAF PKWY APPROX.
200' TO LAKES PARKWAY INTERSECTION. TURN LEFT TOWARD GWINNETT
TECHNICAL COLLEGE.

GWINNETT
TECH. COLLEGE
BUILDING
200

PARKING

SKETCH:

BUILDING
100

①
②
BM 3
③

ROAD

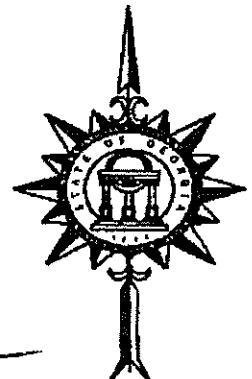
GRASS AREA

316 WEST

MEDIAN

316 EAST

TO SUGARLOAF
PARKWAY



SKETCH DISTANCES AND DESCRIPTIONS:

- ① 29' EAST OF NO PARKING
SIGN
- ② 10.7' SOUTH OF MANHOLE
- ③ 12.3' NORTH OF CENTERLINE
OF ROAD

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 4

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 929.87

TO REACH DESCRIPTION:

BM-4 IS A TEMPORARY BENCHMARK. CHISELED SQUARE SET IN CURB.
FROM THE EXIT RAMP OF 316 TO SUGARLOAF PARKWAY, TRAVEL NORTH ON
SUGARLOAF PARKWAY TO LAKES PARKWAY INTERSECTION. TURN RIGHT ON
LAKES PARKWAY TO APPROX. 2000' BEFORE RIVERSIDE PARKWAY.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 5

JOB NUMBER: 06142.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

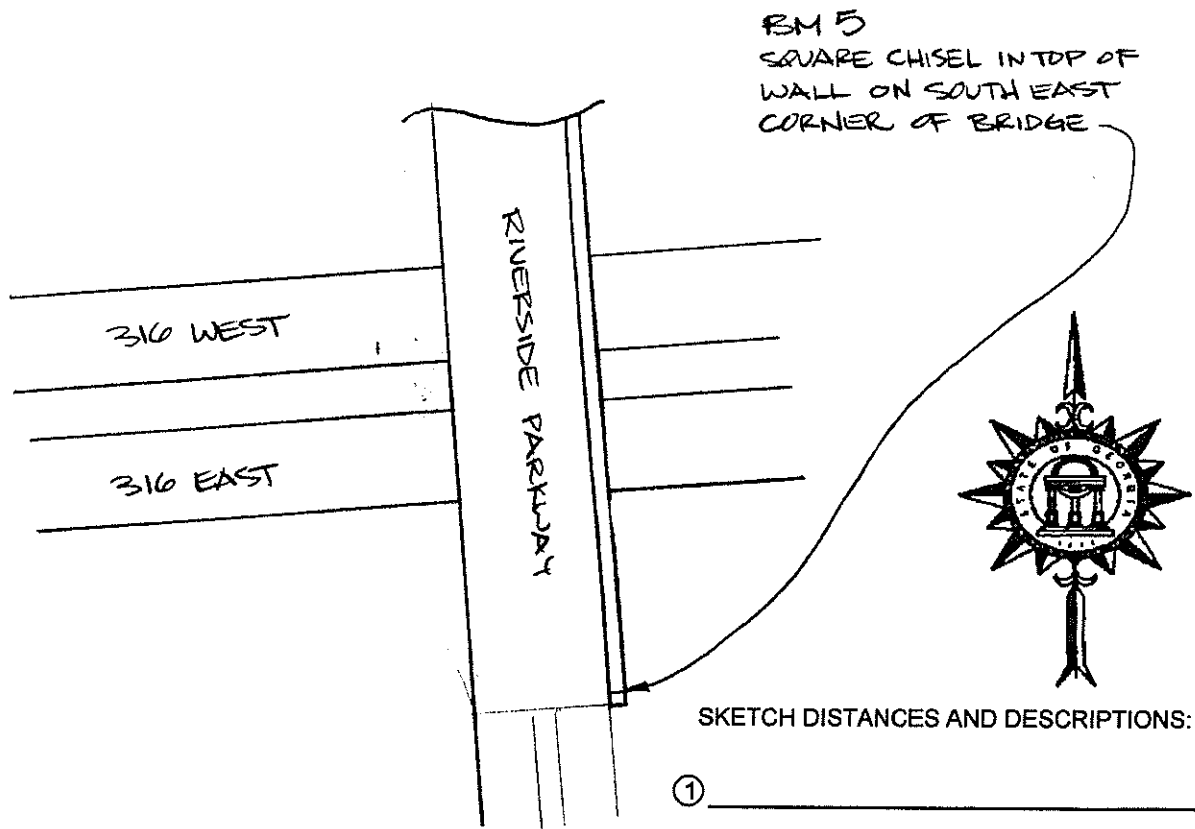
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 892.96

TO REACH DESCRIPTION:

BM-5 IS A TEMPORARY BENCHMARK. SQUARE CHISEL IN TOP OF WALL
ON SOUTHEAST CORNER OF BRIDGE. FROM THE INTERSECTION OF
SUGARLOAF PARKWAY AND THE 316 EAST RAMP TRAVEL 316 EASTBOUND
APPROXIMATELY 1.47 MILES TO RIVERSIDE PARKWAY BRIDGE.

SKETCH:



Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 6

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

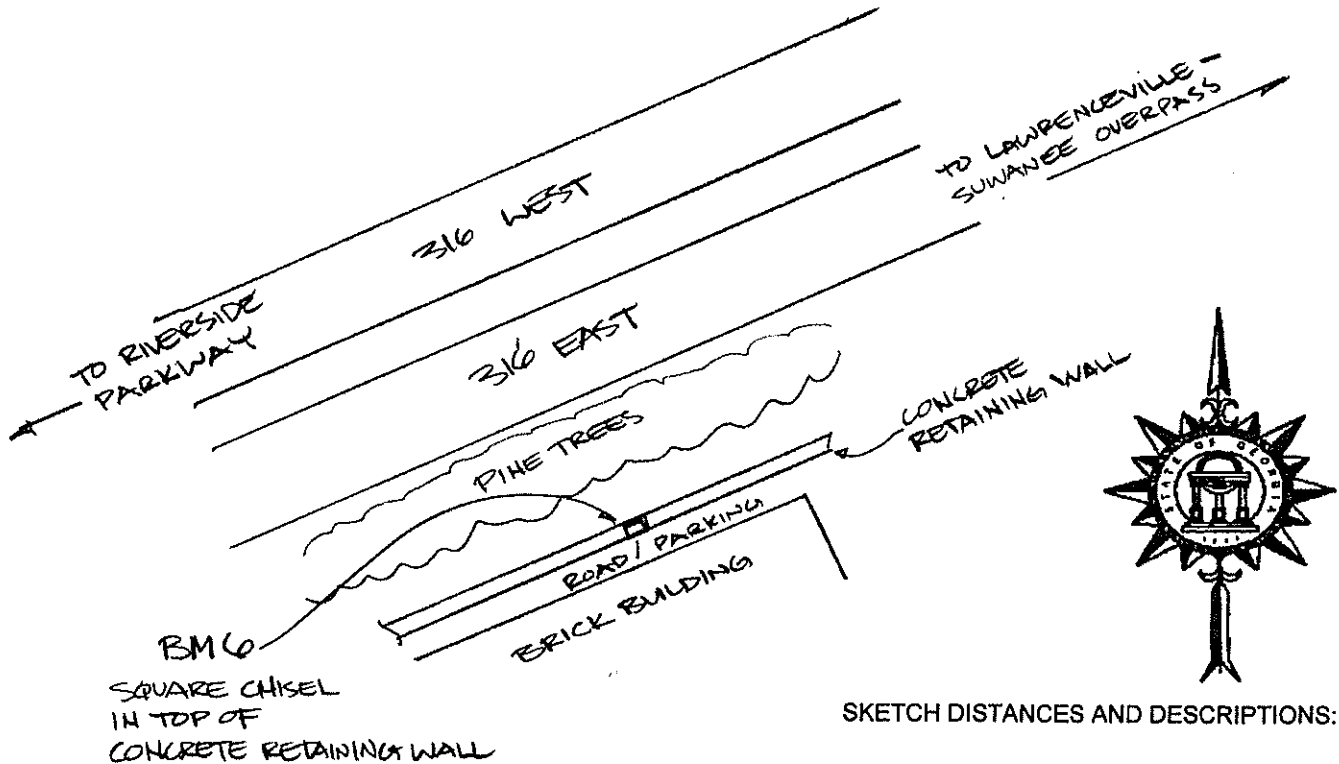
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 881.45

TO REACH DESCRIPTION:

BM-6 IS A TEMPORARY BENCHMARK. SQUARE CHISEL IN TOP OF
CONCRETE RETAINING WALL. FROM SR 316 TAKE THE RIVERSIDE PKWY
EXIT. TRAVEL SOUTH ON RIVERSIDE PARKWAY TO OLD NORCROSS RD. LEFT ON
OLD NORCROSS ROAD TO RACO DRIVE ON LEFT (GWINNETT 316 INDUSTRIAL PARK).

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 7

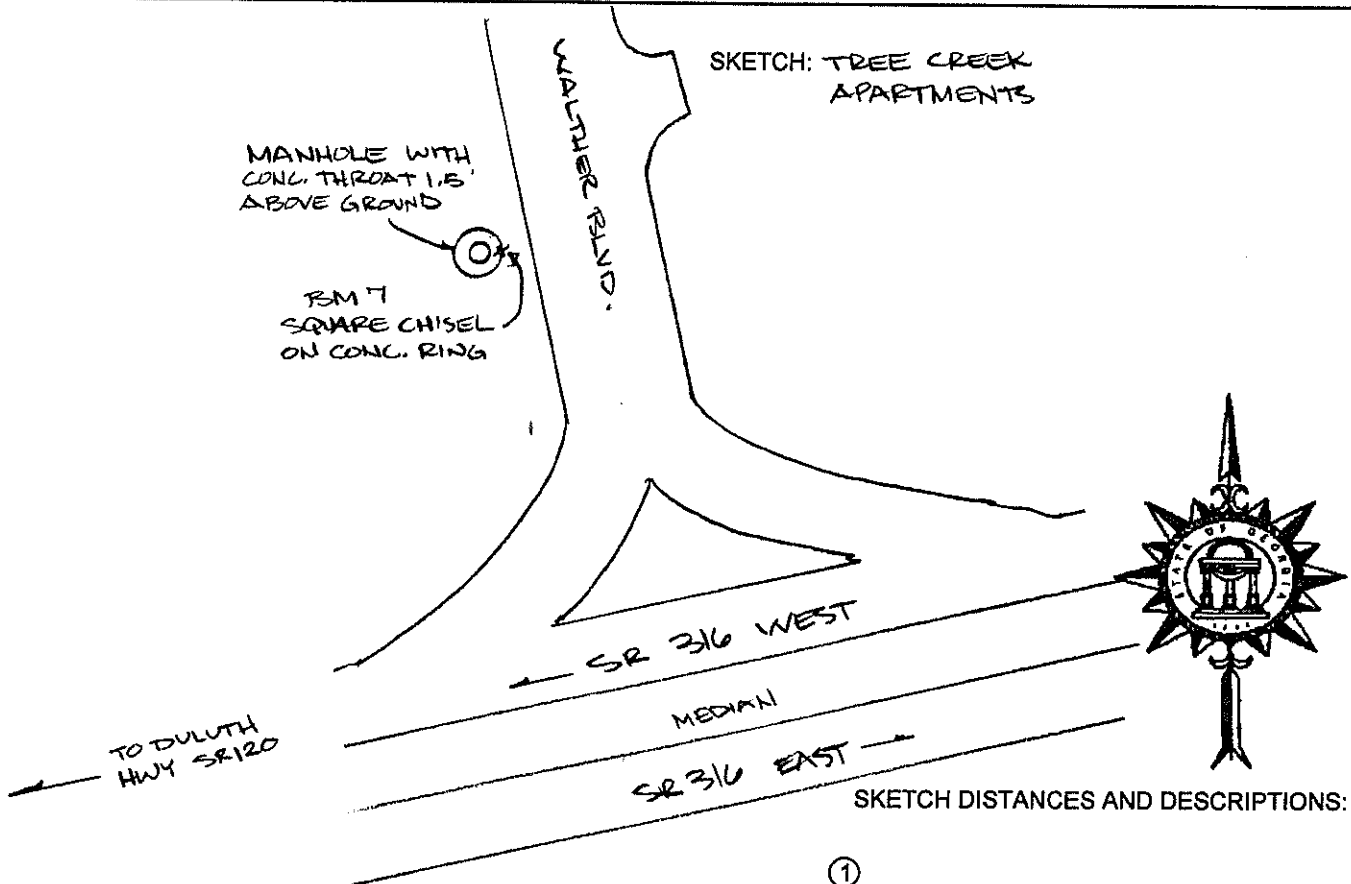
JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA - WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 860.88

TO REACH DESCRIPTION:

BM-7 IS A TEMPORARY BENCHMARK. SQUARE CHISEL ON CONCRETE
RING AROUND MANHOLE. FROM THE INTERSECTION OF COLLINS HILL ROAD
AND SR 316 WEST, TRAVEL APPROXIMATELY 0.80 MILES TO WALTHER
BOULEVARD ON RIGHT.



- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 8

JOB NUMBER: 06119202 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

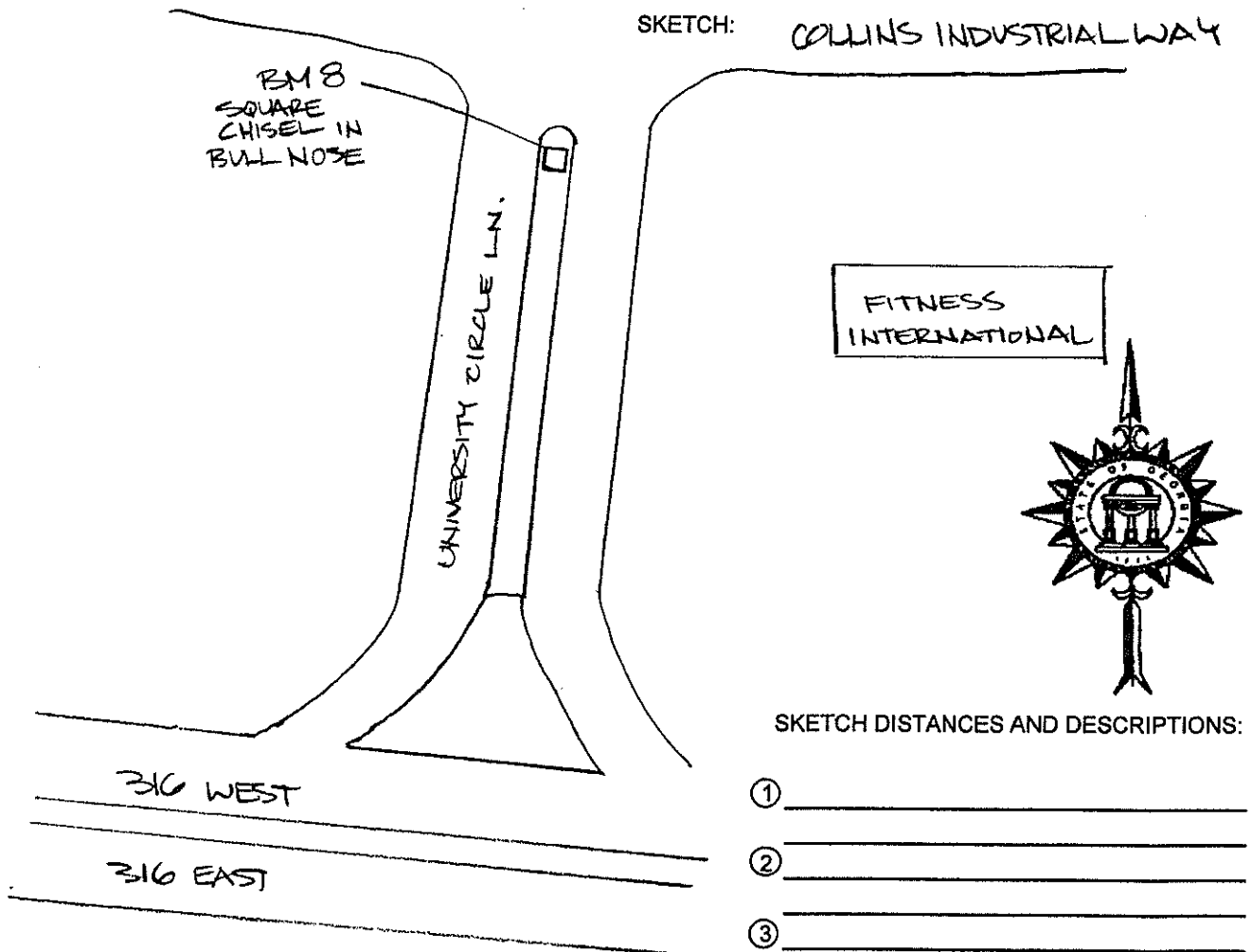
VERTICAL DATUM: NAVD 88 ELEVATION: 822.58

TO REACH DESCRIPTION:

BM-8 IS A TEMPORARY BENCHMARK. SQUARE CHISEL IN BULL NOSE.

FROM THE INTERSECTION OF COLLINS HILL ROAD AND SR 316, TRAVEL

WEST ON 316 APPROXIMATELY 0.27 TO UNIVERSITY CIRCLE LANE.



Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 9

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

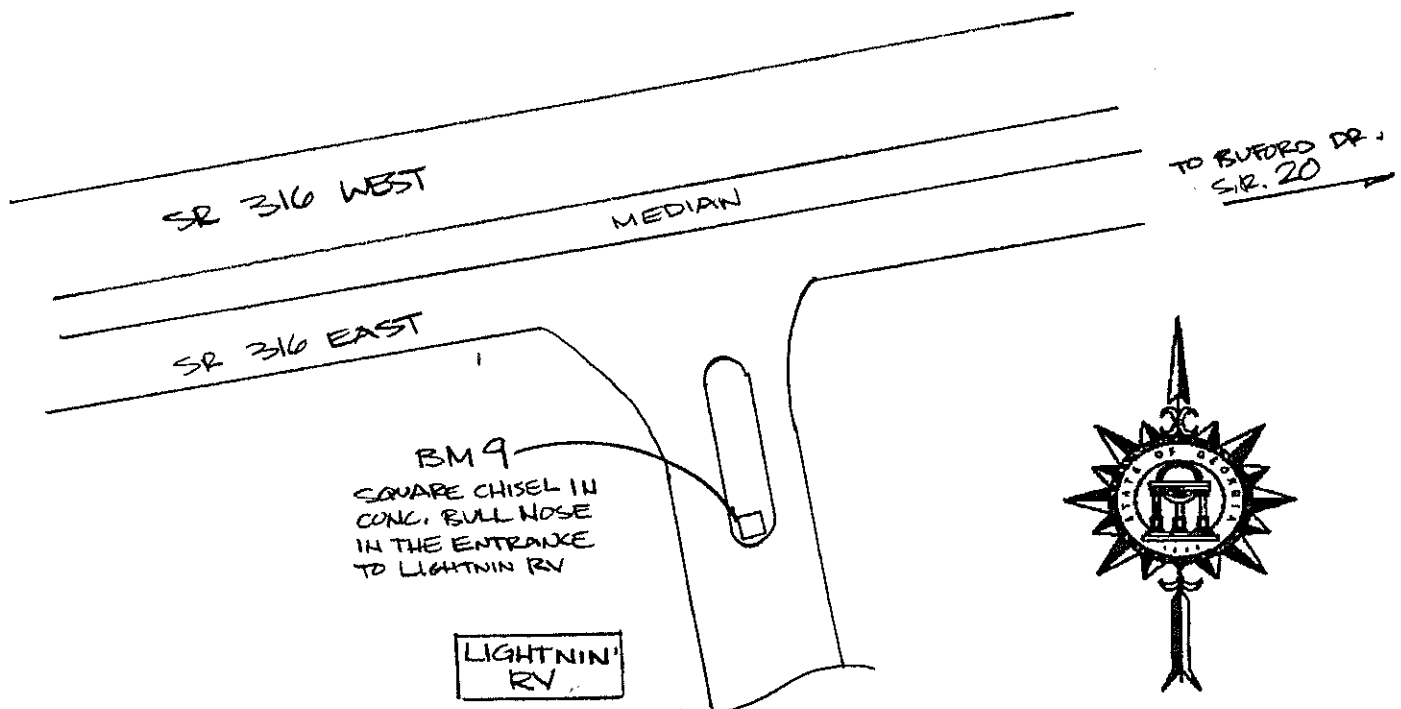
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAVD 88 ELEVATION: 822.69

TO REACH DESCRIPTION:

BM-9 IS A TEMPORARY BENCHMARK. SQUARE CHISEL IN CONCRETE
BULLNOSE IN THE ENTRANCE TO LIGHTNIN' RV. FROM THE INTERSECTION OF
COLLINS HILL ROAD AND 316, TRAVEL EAST ON 316 APPROXIMATELY 0.32 MILES
TO 2555 UNIVERSITY PARKWAY (LIGHTNIN RV) ON RIGHT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____

Georgia Department of Transportation

Office of Environment/Location
VERTICAL BENCH MARK

STATION NAME: BM 11

JOB NUMBER: 061192.02 COUNTY: GWINNETT STATE PLANE ZONE: GA. WEST

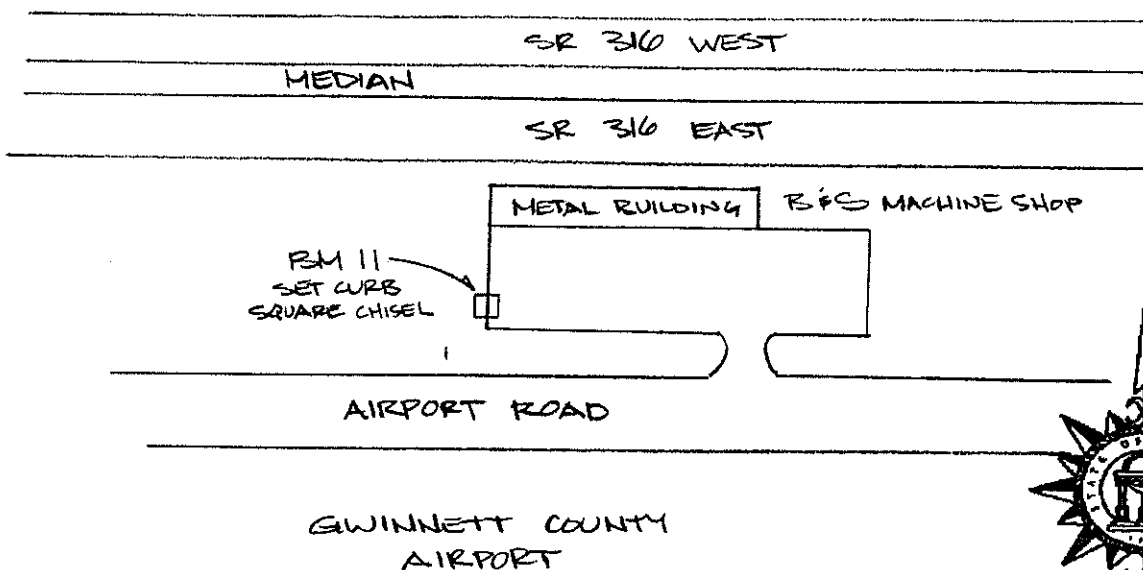
DESCRIBED BY: E. HAMMER DATE: 12/30/04 UNITS OF MEASURE: FEET

VERTICAL DATUM: NAD 88 ELEVATION: 804.82

TO REACH DESCRIPTION:

BM-11 IS A TEMPORARY BENCHMARK - SQUARE CHISEL SET IN CURB.
FROM THE INTERSECTION OF 316 AND HI-HOPE ROAD, TRAVEL SOUTH ON
HI-HOPE ROAD APPROXIMATELY 600' TO AIRPORT ROAD ON LEFT. BM-7 IS
AT 707 AIRPORT ROAD AT B'S MACHINE AND PUMP PARKING LOT.

SKETCH:



SKETCH DISTANCES AND DESCRIPTIONS:

- ① _____
- ② _____
- ③ _____